

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 552

```
cggggctgag gctnngggagc tggagcgggg aagaaaaggg aattccaacc tgtggaacct 60
tgggggggtcc ccgggggtcgg cgcccttccca ttgactgtgg gcggtgcaag ggacggagcc 120
tctggcggct cgtgggggtg ttgggggtccg cagggggagg gaggggagtg tcagagtgtg 180
agcgggggtac gggaattcca aatttgaggg cctcccggct ctggcgccgg ggagggagag 240
ctcaggccgc catgcgggac aggacccacg agctgagaca gggggatgac agctcggacg 300
aagaggacaa ggagcgggtc gcgctgggtg tgcacccggg cacggcacgk ctggggagcc 360
cggacgagga gttcttccac aaggtccgga caattcggca gactattgtc aaactgggga 420
ataaagtcca ggagttggag aaacagcagg tcaccatcct ggccacgccc cttcccagag 480
agagcatgaa gcaggagctg cagaacctgc gcgatgagat caaacagctg gggagggaga 540
tccgcctgca gctgaaggcc atagagcccc agaaggagga agctgatgag aactataact 600
ccgtcaacac aagaatgaga aaaacccagc atgggggtcct gtcccagcaa ttcgtggagc 660
tcatcaacaa gtgcaattca atgcagtccg aataccggga gaagaacgtg gagcggattc 720
ggaggcagct gaagatcacc aatgctggga tgggtgtctga tgaggagtgt gagcagatgc 780
tggacagtgg gcaaagcgag gtgtttgtgt ccaatatcct gaaggacacg caggtgactc 840
gacaggcctt aaatgagatc tcggcccggc acagtgagat ccagcagctt gaacgcagta 900
ttcgtgagct gcacgacata ttcacttttc tggctaccga agtggagatg cagggggaga 960
tgatcaatcg gattgagaag aacatcctga gctcagcgga ctacgtggaa cgtgggcagg 1020
agcacgtcaa gacggccctg gagaaccaga agaaggcgag gaagaagaaa gtcttgattg 1080
ccatctgtgt gtccatcacc gtcgtcctcc tagcagtcac cattggcgtc acagtgggtg 1140
gataatgtcg cacattgttg gcactaggag caccaggaac ccagggcctg gccttctctc 1200
ccagcagcct ggggggcagg gcagagcctc cagtcggacc ccttcctcac actggcccct 1260
atgcagaagg gcagacagtt cttctggggg tggcagctgc tcattcatga tggcctcctc 1320
cttcaggcct caatgcctgg gggaggcctg cactgtcctg attggccggg acacacggtt 1380
ttgtaaaaaa ttaaaaaaca aaaaaagagc atagaaagcc ctgtgcacgt gtgttcctgg 1440
aagggtcggc ccaaggcttt cgggcatnca acctccttac cttctggacg tcccagggcc 1500
aggtctggnc cttggctgnt tcaggtcaaa ctggcagggg tgcttgtgcc cacaagcaag 1560
gctggntctg gccttttttg gaaccccat taagggaatg gggtgggnca agggaagggg 1620
gtnaacaanc cggg                                     1634
```

<210> 553

<211> 278

<212> DNA

<213> Homo sapiens

<400> 553

```
ggcacagaag gaactcacca aggcccatra gctggaggtr aggctgcaca ctttcagcat 60
gtttggratg ccccggtgc cccctragga cggcgggcac tgggagatag gagaggggtg 120
cgacagtggc ctgaccatcg agaagtcctg gagggagctg gtgcctgggc acaaggagat 180
gagccaggag ctytgccacc aacaggaggc cctgtggrag ctccctgacca ccgagctgat 240
cttacgtgag aaagcttcaa gatcatgaac tgatcttg 278
```

<210> 554

<211> 2658

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2128)

<223> n equals a,t,g, or c

<400> 554

```
nggcacgagg agagtcacct ggactcagaa ctagagatat ccaatgaccc agacaaaatt 60
aaacttcagc tttctaagca taaggagttt cagaagactc ttggtggcaa gcagcctgtg 120
tatgatacca caattagaac tggcagagca ctgaaagaaa agactttgct tcccgaagat 180
astcagaaac ttgacaattt cctaggagaa gtcagagaca aatgggatac tgtttgtggc 240
aagtctgtgg agcggcagca caagtgtggg gaagccctgc tcttttcggg tcagttcatg 300
gatgctttgc aggcattggt tgactggtta tacaagggtg agccacagct ggctgaggac 360
cagcccgtgc acgggggacc ttgacctcgt catgaacctc atggatgcac acaaggtttt 420
ccagaaggaa ctgggggaaag cgaacaggaa ccgttcaggt cctgaagcgg tcaggccgag 480
agctgattga gaatagtcga gatgacacca cttgggtaaa aggacagctc caggaactga 540
gcactcgtcg ggacactgtc tgtaaaactct ctgtttccaa acaaagccgg cttgagcagg 600
ccttaaaaca agcgggaagtg tttcgagaca cagtccacat gctgttgagg tggctttctg 660
aagcagagca aacgcttcgc tttcggggag cacttcctga tgacacagag gccctgcagt 720
ctctcattga caccataaag gaattcatga agaaagtaga agaaaagcga gtggacgtta 780
actcagcagt agccatggga gaagtcatcc tggctgtctg ccaccccgat tgcatacaaa 840
ccatcaaaca ctggatcacc atcatccgag ctgccttcga ggaggtcctg acatgggcta 900
agcagcacca gcagcgtctt gaaacggcct tgtcagaact ggtggctaata gctgagctcc 960
tggaagaact tctggcatgg atccagtggg ctgagaccac cctcattcag cgggatcagg 1020
agccaatccc gcagaacatt gaccgagtta aagcccttat cgctgagcat cagacattta 1080
tggaggagat gactcgcaaa cagcctgacg tggaccgggt caccaagaca taaaaagga 1140
aaaacataga gcctactcac gcgcctttca tagagaaatc ccgcagcggg ggcaggaaat 1200
ccctaagtca gccaacccct cctcccatgc caatcctttc acagtctgaa gcaaaaaacc 1260
cacggatcaa ccagctttct gcccgctggc ancagggtgtg gctgttagca ctggagcggc 1320
```



```

aaaggaaact gaatgatgcc ttggatcggc tggaggagtt gaaagaattt gccaaactttg 1380
actttgatgt ctggaggaaa aagtatatgc gttggatgaa tcacaaaaag tctcgagtga 1440
tggatttctt ccggcgcatc gataaggacc aggatgggaa gataacacgt caggagttta 1500
tcgatggcat tttagcatcc aagttcccca ccaccaagtt agagatgact gctgtggctg 1560
acattttcga ccgagatggg gatgggtaca ttgattatta tgaattttgtg gctgctcttc 1620
atcccaacaa ggatgcgtat cgaccaacaa ccgatgcaga taaaatcgaa gatgagggtta 1680
caagacaagt ggctcagtgc aaatgtgcaa aaaggtttca ggtggagcag atcggagaga 1740
ataaataccg ggtaaggaag agaaaaagca gtccctttgtt gtggtgggtt ctcatatgtg 1800
gctgatccca ccttttcttc ctgatgctta gaggcccaaga gcccatcgga cttgagatgt 1860
ggtcactctc tgacctcatc tctatagatg ccaagtgtca ggtaccctgt tacatctgaa 1920
aactagtcctc atatctacct agatagtagt agtttgtatt taagttttaa gataggagat 1980
atttcagagc tgtcacttca catctgacaa agttccctagg gggatgaagg taccttttga 2040
aacaattata tctattgact gaccacttgc ccacaaagag atggtcattg tgagcctgag 2100
tggctcccag gctagagagg cctggggnaa actktgttga agccccaaca gacactgtgc 2160
ctgctctgag ctgggctaca aatggggccc aggagcactg aggagacatc aggtcagtg 2220
gtcttccctg gaaagccatg ctaggtgtgg ccataactga cagtgaacta tacttgtgtt 2280
ttagcttctt ttgggaccag ggtcagggac atagaaggat ctgaaacagg tctcctaaaa 2340
tatatcaaca gctcgtcaag attctctaaa gtcctaagaa aaatctatga ttggcaaaga 2400
ggatttagat tgcactaaga aacacaggaa ggtccatgtt tcattagtat atccaaaatg 2460
tcctcaaagt acaccaaadc taccatgc tgcagtcctc tgaggagtgc tgggtgaatc 2520
tgctttgaat ataacctagg gcatttagtt aataaagctc catataatct tatgcctgct 2580
tgttggattt tgttttcttg ttttttgttt ttaattatct atgagagaaa tgaattaaca 2640
agaacaacat agcatgga 2658

```

<210> 555

<211> 1728

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1642)

<223> n equals a,t,g, or c

<400> 555

gaacgaacta catctcccg caggctgcgg aagggggctg agtagaagga ccgccgctcc 60

ggcctcccg c gacttctcga aggtgggcag gtcccacctt gtggaggatg gaggtgaccg 120  
gggacgccgg ggtaccagaa tctggcgaga tccggactct aaagccgtgt ctgctgcgcc 180  
gcaactacag ccgcgaacag cacggcggtg ccgcctcctg cctcgaagac ctgaggagca 240  
aggcctgtga cattctggcc attgataagt ccctgacacc agtcaccctg gtcctggcag 300  
aggatggcac catagtggat gatgacgatt actttctgtg tctaccttcc aatactaagt 360  
ttgtggcatt ggctagtaat gagaaatggg catacaacaa ttcagatgga ggtacagctt 420  
ggatttccca agagtccctt gatgtagatg aaacagacag cggggcaggg ttgaagtgga 480  
agaatgtggc caggcagctg aaagaagatc tgtccagcat catcctccta tcagaggagg 540  
acctccagat gcttgttgac gtcctctgct cagacctggc tcaggaacta cgtcagagtt 600  
gtgccaccgt ccagcggtg cagcacacac tccaacaggg gcttgaccaa agagaggaaag 660  
tgcgctcagc caagcagctc ctgcagctgt acctccaggc tttggagaaa gagggcagcc 720  
tcttgtcaaa gcaggaagag tccaaagctg cctttggtga ggagggtggat gcagtagaca 780  
cgggtatcag cagagagacc tcctcggacg ttgcgctggc gagccacatc cttactgcac 840  
tgaggagaaa gcaggctcca gagctgagct tatctagtca ggatttggag ttggttacca 900  
aggaagaccc caaagcactg gctgttgcc tgaactggga cataaagaag acggagactg 960  
ttcaggaggc ctgtgagcgg gagctcgccc tgcgcctgca gcagacgcag agcttgcatt 1020  
ctctccggag catctcagca agcaaggcct caccacctgg tgacctgcag aatcctaagc 1080  
gagccagaca ggatcccaca tagcagcagc gggaaagtgtg ccaaggaagc tctgtggcgt 1140  
tgtgttattg gtagacaccc tcagcctcat catttgacta cctatgtact actctacccc 1200  
ctgccttaga gcaccttcca gagaagctat tccagggtctc aacatacgcc gttccaccaa 1260  
tttttttttt agccccacca gcttcaggac ttctgccaat tttgaatgat atagctgcac 1320  
caacaatatc ccgcctcctc taattacata tgatgttctc tgttcaaaaag taattggcag 1380  
tgattggcca ggcgcagtgg ctcacgcctg taatcccaga gtgctgggag tataagggtgg 1440  
gagccaccac gcctggccta aatgaagtac cacatgaccg actgaccgac ctggggaaca 1500  
tagcaagacc ccatctntac aaaantgtaa aaaataaaaa ttagccgggt gtggtggtac 1560  
atgcctgtaa tcctagatac tcgggagggt aaggcagaag aattcacttg agcccaggag 1620  
ttcgaggctg caatgagggt nngatcgtgc cattgcattc catcctgggt gggcagagtg 1680  
aggcctgtct caaattaatt attccagctc cccccaagga agggattg 1728

<210> 556

<211> 3355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<400> 556

catcagtgtt ccctgggggt ttctatgggt tatggagtgt agtgacaaaa agggctctga 60  
gtgagagatg aactggttat atttgtggct tcttagagct ttttaacatg ctaatattca 120  
ttgtattttc taagaagttg tagtgttttc tccaaacttc cttgatctgg aacttttctt 180  
gcagggcgtc ttgtggaaga agttttttcn agaacacagt ctgtagagtg ctgtagcaac 240  
ttctgtcttc aacattcctg tctagctcat ttcatctgtg tgcattctatt agtctttaa 300  
gtcatgtagt gttttatagt cagtagaatg tagtgacttt ctattagttt ccatttgaat 360  
tggttaacaaa tcctgacttt tctccaactc cagtaacctt cgagaaagct ttgaatgccg 420  
gcttcatcca ggccactgat tatgtggaga tttggcaggc ataccttgat tacctgagga 480  
gaagggttga tttcaacaa gactccagta aagagctgga ggagttagag gccgccttta 540  
ctcgtgcctt ggagtatctg aagcaggagg tggaagagcg tttcaatgag agtggtagtc 600  
caagctgcgt gattatgcag aactgggcta ggattgaggc tcgactgtgc aataacatgc 660

```
agaaagctcg ggaactctgg gatagcatca tgaccagagg aaatgccaaag tacgccaaca 720
tgtggctaga gtattacaac ctggaaagag ctcattggtga caccagcac tgccggaagg 780
ctctgcaccg ggccgtccag tgcaccagtg actaccaga gcacgtctgc gaagtgttac 840
tcaccatgga gaggacagaa ggttcttttag aagattggga tatagctgtt cagaaaactg 900
aaacccgatt agctcgtgtc aatgagcaga gaatgaaggc tgcagagaag gaagcagccc 960
ttgtgcagca agaagaagaa aaggctgaac aacggaaaag agctcgggct gagaagaaag 1020
cgtaaaaaa gaagaaaaag atcagaggcc cagagaagcg cggagcagat gaggacgatg 1080
agaaagagtg gggcgatgat gaagaagagc agccttccaa acgcagaagg gtcgagaaca 1140
gcatccctgc agctggagaa acacaaaatg tagaagtagc agcagggccc gctgggaaat 1200
gtgctgccgt agatgtggag ccccttccga agcagaagga gaaggcagcc tccctgaaga 1260
gggacatgcc caaggtgctg cagcagagca gcaaggacag catcaccgtc tttgtcagca 1320
acctgcccta cagcatgcag gagccggaca cgaagctcag gccactcttc gaggcctgtg 1380
gggagtggtt ccagatccga cccatcttca gcaaccgtgg ggatttccga ggttactgct 1440
acgtggagtt taaagaagag aaatcagccc ttcaggcact ggagatggac cggaaaagtg 1500
tagaaggag gccaatgttt gtttccccct gtgtggataa gagcaaaaac cccgatttta 1560
aggtgttcag gtacagcact tccctagaga aacacaagct gttcatctca ggctgcctt 1620
tctcctgtac taaagaggaa ctagaagaaa tctgtaaggc tcatggcacc gtgaaggacc 1680
tcaggctggt caccaaccgg gctggcaaac caaagggcct ggcctacgtg gagtatgaaa 1740
atgaatccca ggcgtcgag gctgtgatga agatggacgg catgactatc aaagagaaca 1800
tcatcaaaag ggcaatcagc aaccctcctc agaggaaagt tccagagaag ccagagacca 1860
ggaaggcacc aggtggcccc atgcttttgc cgcagacata cggagcgagg gggaaaggaa 1920
ggacgcagct gtctctactg cctcgtgccc tgcagcgcgc aagtgtctga gctcctcagg 1980
ctgagaacgg ccctgcccg gctcctgcag ttgccgcccc agcagccacc gaggcacca 2040
agatgtccaa tgccgatttt gccaaagctgt ttctgagaaa gtgaacggga cgtgggaga 2100
caggaaatgc ctacttcac tctggcccgg cggacctccc accaccagc agtgcactgg 2160
ggatggacag gcctggtgtg ctgctgtctc gcaaccacag atggctcctc ggcttttagac 2220
agaaagggga aggggttcta agtcaagagc ctttcagtgc tccctcatat tgagggcagt 2280
ggcagaaaag tgaccactct gcaggctggg cccaggatgt ggtgtcctga gatagttttg 2340
tatcttaaag actgaggcac agaagcgaag cgagaacaca ctgtttttga gacacagttg 2400
tccaaatgtt tctggccagc tccggccccct ttttgtatga cacttctctt ccacctgca 2460
cagcacatgt gcccgtgcat tcttttaatt ttaaaagatg aaatggcaga tgctagtaat 2520
tcacagaatg gcctcttgtg ggggtgggtc tgagggaagt cagctataaa acatttgctg 2580
gagttttgtt caatggggct gtgcattttt atattatgtg tttgtaaag acatgtcagc 2640
ccttgtttca tgtttcctaa aagcagaata tttgcaacat ttgttttgta taggaattat 2700
ttgtgccacc tgctgtggac tgttttcttt gcctagtgc tagtgacctg tgttgtctaa 2760
acatgagttt cagccctttg gttttgttta ataccatgtc aaatgcaaac ttcaattctc 2820
cccatttagc tttattaaac tgacgttctc ttcaaaactt cttgctgaat ggtactcaga 2880
tgtgcattca catacagatg tgttttgaag tgggtgtacc ttgctttacc taatagatgt 2940
gtaaatagaa cttttgtaag tcaaatccca ttgtcacttt gatttaaatt attccagctg 3000
tgatgtgtct tcattttata gcagtttgac actggagctt ttgagctttt ttacctcaca 3060
tcttttatca aataatatat actgctttga aaacagcaac agcattggcc agttcagtag 3120
gggaagcttg cttttattaag acactctgga gaaagacgtc agggaatcct tgtatatgtc 3180
gtgggaatca actcctcatt tatctgttgc gtaagtttaa gtttttgtgc atcagtcggg 3240
ttttctatat ttttttaact taacattttt taatataacc gattaaaaag tagacagaac 3300
agtaaaataa actcctgtgt gcctaccaa aaaaaaaaaa aaaaaaa 3355
```

&lt;210&gt; 557

&lt;211&gt; 1079

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (187)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (641)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1042)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1055)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1064)  
<223> n equals a,t,g, or c

<400> 557

```
gccgtggtcg gcggtctgtg ggctccgcgc cggggtccga gtcccacgaa gccccggccc 60
gagccgcccg atgcccgcgc gcagcggsgc ccagttttgc cgacggatgg ggcaaaagaa 120
gcagcgacca gctagagcag ggcagccaca cagctcgtcc gacgcagccc aggcacctgc 180
agagcancca cacagctcgt ccgatgcagc ccaggcacct tgccccaggg agcgtgctt 240
gggaccgccc accactccgg gccataccg cagcatctat ttctcaagcc caaagggccca 300
ccttaccga ctggggttgg agttcttcga ccagccggca gtccccctgg cccgggcatt 360
tctgggacag gtcctagtcc ggcgacttcc taatggcaca gaactccgag gccgcctcgt 420
ggagaccgag gcatacctgg ggccagagga tgaagccgcc cactcaaggg gtggccggca 480
gacccccgc aaccgaggca tgttcatgaa gccggggacc ctgtacgtgt acatcattta 540
cggcatgtac ttctgcatga acatctccag ccagggggac ggggcttgct tcttgctgcg 600
agcactggag cccctggaag gtctggagac catgcgtcag ntgcgcagca ccctccggaa 660
aggcaccgcc agccgtgtcc tcaaggaccg cgagctctgc agtggccctt ccaagctgtg 720
ccaggccctg gccatcaaca agagctttga ccagagggac ctggcacagg atgaagctgt 780
atggctggag cgtggtcccc tggagcccag tgagccggct gtagtggcag cagcccgggt 840
gggcgtcggc catgcagggg agtgggcccg gaaacccctc cgcttctatg tccggggcag 900
cccctgggtc agtgtggtcg acagagtggc tgagcaggac acacaggcct gagcaaaggg 960
cctgcccaga caagattttt taattgttta aaaaccgaat aaatgtttta tttctagaaa 1020
aaaaaaaaaa aaaaaaactc gngggggggc ccggnaccga attngcccta aagtgatgg 1079
```

<210> 558  
<211> 724  
<212> DNA  
<213> Homo sapiens

<400> 558

```

ctctaggcct gygtgtycaa gacagcctgg tcaacatagt gagacactgt ctctaccaa 60
aaaaggaagg aaggacacac tatcaaaactg aaacaaaatt agaaatgtaa ttatgttcta 120
agtgcctcca agttcaaaac ttattggaat gttgagagtg tggttacgaa atacgttagg 180
aggacaaaag gaatgtgtaa gtctttaatg ccgatatctt cagaaaacct aagcaaactt 240
acaggctcctg ctgaaactgc ccactctgca agaagaaatc atgatatagc tttgccatgt 300
ggcagatcta catgtctaga gaacactgtg ctctattacc attatggata aagatgagat 360
ggtttctaga gatggtttct actggctgcc agaactctaga gcaaagccat ccccgctcct 420
ggttggtcac agaatgactg acaaagacat cgattgatat gcttctttgt gttatttccc 480
tcccaagtaa atgtttgtcc ttgggtccat tttctatgct tgtaactgtc ttctagcagt 540
gagccaaatg taaaatagtg aataaagtca ttattaggaa gttcaaaagc attgctttta 600
taatgaactt agaaaaacgt atgtgtgtgt gtttaattag aataaaattc ctctaggcag 660
attcaggaaa aaaaaaaaaa aaaagtcgag cgcccgaat ttagtagtag taggtcgcgg 720
ccgc 724

```

&lt;210&gt; 559

&lt;211&gt; 3125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

```

ggaggagcct ctaaagaggt gactggtatt ttgtagcatt ccttgtcaag ttctcctttg 60
cagaataacct gtctccacat tcctagagag gagccaagtt ctagtagttt cagttctagg 120
ctttccttca agaacagtca gatcacaaag tgtctttgga aattaaggga tattaattty 180
taagtgattt ttggatggtt attgatattc ttgtagtagc tttttttaa agactacca 240
aatgtatggt tgctcctttt tttgtttttt ttttttttaa ttattkctct takcagatca 300
gcaatccctc tagggacctt aatactaggt cagctttggc gacactgtgt cttctcacat 360
aaccacctgt agcaagatgg atcataaatg agaagtgtt gcctattgat ttaaagctta 420
ttggaatcat gtctcttgct tcttcgtctt ttctttgctt ttcttctaac tttccctct 480
agcctctcct cgccacaatt tgctgcttac tgctggtgtt aatatttgtg tgggatgaat 540
tcttatcagg acaaccactt ctcgaactgt aataatgaag ataataatat ctttattctt 600
tatccccctt caaagaaatt acctttgtgt caaatgccgc tttgttgagc ccttaaaata 660
ccacctctc atgtgtaaat tgacacaatc actaatctgg taatttaaac aattgagata 720
gcaaaagtgt ttaacagact aggataattt ttttttcata ttgccaataa tttttgtaa 780
ccctgtcttg tcaataagt gtataatatt gtattattaa tttattttta cttctatac 840
catttcaaaa cacattacac taagggggaa ccaagactag tttcttcagg gcagtggacg 900
tagtagtttg taaaaacgtt ttctatgacg cataagctag catgcctatg atttatttcc 960
ttcatgaatt tgctactgga tcagcagctg tggaaataaa gcttgtgagc cctctgctgg 1020
ccacagttag gaaagtagca caaataggat acagttgtat gtagtcattg gcaacaattg 1080
catacaattt tactaccaag agaaggtata gtatggaaag tccaaatgac ttccttgatt 1140
ggatgttaac agctgactgg tgtgagactt gaggtttcat ctagtcctc aaaactatat 1200
ggttgacctag attctctctg gaaactgact ttgtcaaata aatagcagat tgtagtgtct 1260
ggtttggttt ggacagtagt gctttctatc atattgttgt gtgcaatggt aatttgttct 1320
actggccaaa gcctctttca gcagtgcctt gccatcatgc ttaaaagtth ggctagtata 1380
tcttgctgga tggagccttg aactccggca aggattgaac catctgactt ccaaatttgc 1440
cttccctctt ggacctcact attaacaagc aaacctttca gggccctctt agctctcaga 1500
agctatgtat gggctttccc agatttttaa gctgctgcct cgagaactac tcatttctct 1560
cctggctcagc agacagaaat agccatacta atctcatagg gctcaaagtc atcttcaggc 1620
agcaggggaa caagcagcgt ggcacaggcc ttcttgactg gaggaagagc ttgctggcat 1680
ggtgggcagt attccaggag aggccatgtc cgtgttcact tcttggcaca tttcagttcc 1740
gttttcctct tgtttaaaac tgccctctta gatgtggatg ccttaatgct gtaacacatt 1800
tgaaaacatt ggcaatactt aagttgctgc catgattaca gatggaatta ttggctacca 1860

```

```

aagagacgca attgatgatg agaagcatga ttcttgcttc catataacca aagttaatct 1920
taattgcaat ttgactccgt ttcttggtga gggatagact ttcttcagat tccaagtgtc 1980
ctcttaaatg gcaaattaag ttaaagaata ctactgctcc attcccccca cttattctcc 2040
agttaattgc ttgtcagttc catttcaaga aagcagtgat gttccagggt tgattcagtt 2100
ttcctgtgca cactattgcc aaatTTTTTT ttagcaaga ttctgcaactg gaacgtagac 2160
agttggaac agtactacct acctagaggt tatgtgtttt ctctttctcc ccgctttcac 2220
ctctttcttt cccaattcaa aacagccaag tgagccctgt tctggtattt tgaatcatta 2280
gagaaaagaa agggagtggc tgttttgagt tgcctttct ttgcagaaag gagaaaatgt 2340
gattgtgttt tttttttacc agcctacttc taagtgtcac tgcctgggtt ttctcttttt 2400
caaggattag aactaagagg acacaccagc atcgagtggt attaagcccc tgaaacacat 2460
ggtagctagg gactgaacac aggaaccgta tgacagcagc acaaaccccc aaaggatgtt 2520
cctgccttgt gggccccctga gcccttggtg agactgagaa tcatgaccag attcatccag 2580
aactgctgca gtgttaagtg aaaatcctct gtagttgttc tgcagaggaa ccttccttcc 2640
attagaaaat ttctgctcaa tacagaatgg tccacatcac ccaaagtgca ctgttgga 2700
tgctgtgaaa taaaacctc ttgtacctg agacatctag attcacctca ggaggcctga 2760
aggaatgtg taacttgtgg gaaagaacta gacaaccatt taggaattct ctagatatac 2820
tcagcctaac ccagtggctt aacacaagga gattggcttt gatctttttt tctgtggca 2880
tctccagca agttagaagt ctcatgggt aagactgcag ttcccctggt tcaatagctg 2940
gaacagtgat tttaaatgtc cctttttctg gatcccttgt aaacatgaaa tcattccatg 3000
gatggctgcc ttataatttt gtctctttcc actttaattg tgaatggta aaaaaatgct 3060
gttttctgat attaaatttt tattagtgca taccttaaaa aaaaaaaaaa aaaaaaac 3120
tcgag 3125

```

&lt;210&gt; 560

&lt;211&gt; 2645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

```

aagaggagct gggcaggagg cagggaagg agaaagctgt tcgggggtct tgtctggatt 60
ttggttgccct cctccaatgt tcctctacct ctactacaag gatgggtcat gtttgtgtcc 120
gtgacagcgt tttcttttct gctcctcttt ctgggcatgt tcctctctgg catgggtggc 180
caaattgatg ctaactggaa ctctctggat ttgcctacc attttacagt atttgtcttc 240
tattttggag cttttttatt ggaagcagca gccacatccc tgcattgatt gcattgcaat 300
acaaccataa ccgggcagcc actcctgagt gataaccagt ataacataaa cgtagcagcc 360
tcaatttttg cttttatgac gacagcttgt tatggttgca gtttgggtct ggctttacga 420
agatggcgac cgtaaacact cttagaaact ggcagtcgta tgtagtttc acttgtctac 480
tttatatgtc tgatcaattt ggataccatt ttgtccagat gcaaaaacat tccaaaagta 540
atgtgttttag tagagagaga ctctaagctc aagttctggt ttatttcatg gatggaatgt 600
taatttttatt atgatattaa agaaatggcc ttttatttta catctctccc ctttttccc 660
ttcccccttt attttcctcc ttttctttct gaaagtttcc ttttatgtcc ataaaaata 720
aatatattgt tcataaaaaa ttagtatccc ttttgtttgg ttgctgagtc acctgaacct 780
taatttttaat tggtaattac agccccataa aaaaacacat tcaaatagg cttcccacta 840
aactctatat tttagtgtaa accaggaatt ggcacacttt ttttagaatg ggccagatgg 900
taaatatttta tgcttcacgg tccatacagt ctctgtcaca actattcagt tctgctagta 960
tagcgtgaaa gcagctatac acaatacaga aatgaatgag tgtggttatg ttctaataaa 1020
acttatttat aaaaacaagg ggaggctggg tttagcctgt gggccatagt ttgtcaacca 1080
ctggtgtaaa acctagttat tatatgatct gcattttctt gaactgatca ttgaaaactt 1140
ataaacctaa cagaaaagcc acataatatt tagtgtcatt atgcaataat cacattgcct 1200
ttgtgttaat agtcaaatac ttacctttgg agaatactta cctttggagg aatgtataaa 1260
atttctcagg cagagtcctg gatataggaa aaagtaattt atgaagttaa cttcagttgc 1320

```

```
ttaatcaaac taatgatagt ctaacaactg agcaagatcc tcatctgaga gtgcttaaaa 1380
tgggatcccc agagaccatt aaccaatact ggaactggta tctagctact gatgtcttac 1440
tttgagttta tttatgcttc agaatacagt tgtttgccct gtgcatgaat ataccatat 1500
ttgtgtgtgg atatgtgaag cttttccaaa tagagctctc agaagaatta agtttttact 1560
tctaattatt ttgcattact ttgagttaaa ttgaaataga gtattaaata taaagtgtga 1620
gattcttatg tgtttttgta tttagccaga catctgtaat gtttttgac tggtgacaga 1680
caaaatctgt tttaaaatca tatccagcac aaaaactatt tctggctgaa tagcacagaa 1740
aagtatttta acctacctgt agagatcctc gtcatggaaa ggtgccaaac tgttttgaa 1800
ggaaggacaa gtaagagtga ggccacagtt cccaccacac gagggctttt gtattgttct 1860
actttttcag ccctttactt tctggctgaa gcatccctt ggagtgccat gtataagttg 1920
ggctattaga gttcatggaa catagaacaa ccatgaatga gtggcatgat ccgtgcttaa 1980
tgatcaagtg ttacttatct aataatcctc tagaaagaac cctgtagat cttggtttgt 2040
gataaaaaata taaagacaga agacatgagg aaaaaacaaa ggtttgagga aatcaggcat 2100
atgactttat acttaacatc agatcttttc tataatatcc tactactttg gttttcctag 2160
ctccatacca cacacctaaa cctgtattat gaattacata ttacaaagtc ataaatgtgc 2220
catatggata tacagtacat tctagttgga atcgtttact ctgctagaat ttaggtgtga 2280
gattttttgt ttcccaggta tagcaggctt atgtttggtg gcattaaatt ggtttcttta 2340
aaatgctttg gtggcacttt tgtaaacaga ttgcttctag attgttacia accaagccta 2400
agacacatct gtgaataact agatttgtag cttaatcaca ttctagactt gtgagttgaa 2460
tgacaaagca gttgaacaaa aattatggca tttagaatt taacatgtct tagctgtaaa 2520
aatgagaaag tgttggttgg ttttaaaatc tggttaactc atgatgaaaa gaaatttatt 2580
ttatactgtg tatgtctcta ataaagtatt catttgataa aaaaaaaaaa aaaaaaaac 2640
tcgag 2645
```

<210> 561

<211> 1717

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 561

```
gctgaaatga ctatacgagg taaagaagta gtaccagatg gtcccaaagt tcccttttag 60
cctgaaagct tttctttgtc cctccttagt gaatctgtgt tccgagccct actctaaagt 120
tcagtgggtca atacaatagt ccaccaagag actgggaatr attagaagtg aaattgggtcc 180
ctccttacca aggaggggca gatgatctcc attgcacagg gcgattagat tctggagctg 240
agggtggggac tgcaggaggc cacctagtct ggtaggtttc aaccaagct gtgtacatta 300
gaattccctt gggagcgtgc aggaaatata gatgcccatg ccacattcca gaccaactga 360
agctgaatct ccagagtagg gcctgnatgg catataaget tcacaggtga tctgcagtac 420
agtgaanatg gaagactgca tgtgtacctt tttgcaataa agatgaagag gacagcaagc 480
tccagacagg agctgggact yaacccagat ctcttaagtc ctgcctgggt gctccttaaa 540
agtccagaag tgttgcccc aagccctccct caacatctct gggaaccgca gctgcagcac 600
gatggggggt cagtgccctt gtttgccctt taccagctg tggtttattc tgcttgtatg 660
```

```
tctgcacagg ccggatgctc gtgttccttg tcttattctc catttactca gtcactgggg 720
ctcactcccc tctgatgcac tagccaagat tgcctcagtg tgctccagaa aagaaggcca 780
aatcccaggc attgtcaggg cagcagagct ctacaggata ggcttacctt tcccacctgt 840
gtggctagca cttcacagtt tacaaattcc tcccacctcc actcagtgac acatgctgtt 900
ctaacacagg tcaggcaggc attacagtcc ccatgttcag aatcaaagac cttagcctcag 960
agaagtgaag aaacatcatg ccaaggatcat tgactgccaa gcggtagagg tgggggttgca 1020
tccagagagc ttcccgggat gcctctgcac aatgccattc cttggccagc tccctccacc 1080
ccaagggacc cagactgcac acttaacaaa caggacacag gtgtccttga acaaactttt 1140
ttgtattatt atttttacat ctagaataaa ttattttaa tttttcacag caagggagag 1200
ggataggtaa tttttatcag atattttttt aaaccatctg ttttttaa taccattttt 1260
tttatgttct tgagctgatg tagtggaact tgcctagcac attcaggtcc cagccagttg 1320
gcagagcatg ctctcatctc cttattccat accctgggag tcccttttct gttgactcag 1380
gaactttctg agaatgagga cagcactagg agatgagctt tggcagggtat ccaccttaac 1440
gctacaataa ttgtgcttcc tgaaacaaaa cttgagattg tatcatagaa ggaaacagga 1500
agtcagaaat caaatctatg cttttaattg aaaccgtgcc tgaaacagtt tgaatgattg 1560
ttttaatgtt gtttctgaaa ttccttgtag ctttgtgaaa aataatgata ataaataaaa 1620
gtgaaaataa atagatgtgg aatatgcaat ggaaataatg taacaaaata ataaacatct 1680
ggccatttta ctacaaaaaa aaaaaaaaaa aaaaaaa 1717
```

<210> 562

<211> 2417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2398)

<223> n equals a,t,g, or c

<400> 562

```
caaagccggg aagaggaaaa gctcggacct accctgtggt cccgggtttc tgcagagtct 60
acttcagaag cggaggcact gggagtccgg tttgggattg ccaggctgtg gttgtgagtc 120
tgagcttgtg agcggctgtg gcgccccaac tcttcgccag catatcatcc cggcaggcga 180
taaaactacat tcagttgagt ctgcaagact gggaggaact ggggtgataa gaaatctatt 240
cactgtcaag gtttattgaa gtcaaaaatgt ccaaaaaaat cagtggcggt tctgtggtag 300
agatgcaagg agatgaaatg acacgaatca tttgggaatt gattaaagag aaactcattt 360
ttccctacgt ggaattggat ctacatagct atgatttagg catagagaat cgtgatgcca 420
ccaacgacca agtcaccaag gatgctgcag aagctataaa gaagcataat gttggcgta 480
aatgtgccac tatcactcct gatgagaaga gggttgagga gttcaagttg aaacaaatgt 540
ggaaatcacc aaatggcacc atacgaaata ttctgggtgg cacggtcttc agagaagcca 600
ttatctgcaa aaatatcccc cggcttgtga gtggatgggt aaaacctatc atcataggtc 660
```



gtcatgctta tggggatcaa tacagagcaa ctgattttgt tgttcctggg cctggaaaag 720  
tagagataac ctacacacca agtgacggaa cccaaaaggc gacataacct gtacataact 780  
ttgaagaagg tgggtggtgtt gccatgggga tgtataatca agataagtca attgaagatt 840  
ttgcacacag ttccttccaa atggctctgt ctaagggttg gcctttgtat ctgagcacca 900  
aaaacactat tctgaagaaa tatgatgggc gttttaaaga catctttcag gagatatatg 960  
acaagcagta caagtcccag tttgaagctc aaaagatctg gtatgagcat aggcctcatcg 1020  
acgacatggt ggcccaagct atgaaatcag agggaggctt catctgggcc tgtaaaaact 1080  
atgatggtga cgtgcagtcg gactctgttg cccaagggtg tggctctctc ggcatgatga 1140  
ccagcgtgct ggtttgtcca gatggcaaga cagtagaagc agaggctgcc cacgggactg 1200  
taaccgctca ctaccgcatg taccagaaag gacaggagac gtccaccaat cccattgctt 1260  
ccatttttgc ctggaccaga gggtagccc acagagcaaa gcttgataac aataaagagc 1320  
ttgccttctt tgcaaatgct ttggaagaag tctctattga gacaattgag gctggcttca 1380  
tgaccaagga cttggctgct tgcattaaag gtttacccaa tgtgcaacgt tctgactact 1440  
tgaatacatt tgagttcatg gataaacttg gagaaaactt gaagatcaaa ctagctcagg 1500  
ccaaacttta agttcatacc tgagctaaga aggataattg tcttttggtg actaggtcta 1560  
caggtttaca tttttctgtg ttacactcaa ggataaaggc aaaatcaatt ttgtaatttg 1620  
tttagaagcc agagtttatac ttttctataa gtttacagcc tttttcttat atatacagtt 1680  
attgccacct ttgtgaacat ggcaagggac ttttttacia tttttatatt attttctagt 1740  
accagcctag gaattcgggt agtactcatt tgtattcact gtcacttttt ctcatgttct 1800  
aattataaat gaccaaatac aagattgctc aaaagggtaa atgatagcca cagtattgct 1860  
ccctaaaata tgcataaagt agaaattcac tgccttcccc tcctgtccat gaccttgggc 1920  
acagggaagt tctggtgtca tagatatccc gttttgtgag gtatagctgt gcattaaact 1980  
tgcacatgac tggaaacgaag tatgagtga actcaaatgt gttgaagata ctgcagtcac 2040  
ttttgtaaaag accttgcgtg atgtttccaa tagactaaat actgtttagg ccgcaggaga 2100  
gtttggaatc cggaataaat actacctgga ggtttgtcct ctccattttt ctctttctcc 2160  
tcctggcctg gcctgaatat tatactactc taaatagcat atttcatcca agtgcaataa 2220  
tgtaagctga atcttttttg gacttctgct ggccgtgttt atttctttta tataaatgtg 2280  
atcttctcaga aattgatatt aaacactatc ttatcttctc ctgaactgtt gattttaatt 2340  
aaaattaagt gctaattacc anaaaaaaa aaaaggsgg ccggtntaag gatccctnga 2400  
ggggccaagt tacgcgg 2417

&lt;210&gt; 563

&lt;211&gt; 1544

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

caaggattca gaattttgca gtcacagaag agtgtattta ttatgtagaa tgaatgaggg 60  
tactgtcacc tgccttaatg taggtaggcc cagagtctta catttaagat cttacatgca 120  
gttataaaac cgccacagtc ttcaatccag atttgaagac tcatgccata ggtgacattc 180  
taaaatacca ttaaagccac ttaaagtgtt aataagaata tacatgcaca tcagctcaat 240  
gtctttgagt attaatttta tgtaagcatt ctattttaaca tgaatatagg acaaatcatg 300  
gctatatcta tagaccttgg ataaactgga ttgaccaatt atacactcac ggtgactttt 360  
ttattggtgg gaaggggatt ggggtggggc aggcgtggctt aatgtaatat gagcaaccaa 420  
agtgggactt ctgtctcccc gctatatccc cattgctctg aatgggtgat tgaagggcca 480  
gggaactaga ttttatggct ttagtccact gtgattgtac atttatactt ggcctatgtg 540  
ctggccgcac ctgaacatag ctggtgctta tgccgagtta tttgygatga gtaaatattt 600  
agtttctttt tcttcatatt tataatgttg atctggcatc ctcaggctgc agctttatta 660  
gcttataamt tactcatctc trtctttacc agcaggctct gtattgttga tatttgcaac 720  
ttgttttgct tttccattgg tggaaatgaa ataattagtt ttttaattaca taagatgcct 780  
gtttgctatt tgggtggaaga tagatgttca tattgaagca gtcacatttg tactgtagtt 840

```

caataaaaaga aaaatgaagt attctgtagc ctatatTTTT catagagctc atgagcattt 900
actgtacttg ctgggtcttg ccaagatcat ttattccgct gcattgccaa agtgtcttca 960
taccaaatta aaggtggttt taatatacgt ttcattggaag ttgtttataa aattcaaagg 1020
tatttcattt aggtgaaaaag tcttatttat taaagtgggt tgaataaagt agatcaaaac 1080
ttccagagat cttaatggct atataggaag aaatatcact caccataatt taaataaaga 1140
ataaaaatac wtgtattttr tgggtggcaa tgtttggtag aactgtaatt agaaaaatac 1200
aagtatattt gcgtgatggg tacactagaa gcccagactt tacgactaca caatatattc 1260
atgtatctaa actgtacttg taccctcctaa atttattttt aaaaaaggaa aaataaaagt 1320
atcatgaaaa aacctatttt tttttccact gtccttccac tactcccata acaaacttat 1380
ccatggttgg taaaatttta catatttcta tccttgaaat gaaggcttct tttaaattcc 1440
aaagaagtca tggaggcctg tgcatttgaa ttgtatatgc tagtgaggaa aagattttaga 1500
cattycaggc aggktgmma rgcgcggtgg cycacacctg taac 1544

```

<210> 564

<211> 2299

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<400> 564

```

tcagacagtt tgaatacttg aatcatgcag gccaatatta taatgtgaaa aggtatctac 60
tctatttaca ctcccaaata gcgccataca tgctaaaccg tagagaatga gctcgcttgt 120
gtctattcat catgttttagc ctttggtatc tttttttttt ttcttcttat tcctcccn 180
cccccccc cgccctttt ttttytytt gcaaaaccat tttttgggt gataacgtat 240
gagcttttcc ctttgactg aatgatgttc tctccgtctc atcggcagta tggggggcag 300
ctgtcccagt gtcaatgttt actcaagggt gttcttagga ggctgctgct ctctactatg 360
ccttgatgtt gcctacctta ttgtggtatc gtggagttaa aaagatcaag ttaggatgct 420
gacttaggat tattaatgaa agtgttgac cagttttttc atgttgtaaa actaaagaat 480
ttcgctctgc agtttgaaaa actgtggcca cagctgtgac ttgcagccca cctgccaccc 540
aggacgggcc ctgcactttg aataggcttt ccattttgtt ttggagggtc tcactttgaa 600
ccttctgtt tacagatttt tttgtttgtt ttttgagaaa aaaaaatgtt tactcttcca 660
tcatttaaaa aaaatgtaaa agacaaaaaa aaaatggagg atgatttaaa agatgctttc 720
tatctctggg aaaaaggagc agcatttggc catgttcttt tgtttttcta ttctgtccc 780
aaatcaaaga gcatggttct caggaaaacc agttccccag tttaaaaaaa aaaaaaaaaa 840
ttcctttagt tttcttagag gaaaaaaga aaaaccccaa ctttttagcac tgatactaca 900
tattgtcttg ttaaagaatt ttctctgcca aaaaaaaga aaaaacaaaa aaacgcttaa 960
agctggagtt tgacattctg ctttcagatg ctgtcttttt attagttagt gatgatggtt 1020
tgctaataat caataggtaa taattttttg taatcccatc aagtggctcc atatgtttct 1080
gctctctcgt gactgtgtta atgtttaact gttgtacctt aaagccgaaa tcagtaacta 1140
tgcatactgt aaccaaggta ttgggcttac agagtgtgtt gttgtataaa gaaaatttta 1200
aatgttggtg caaactaacg agttacacca ttttaaactt tctttcctcc cccctttttt 1260
tgccacaaa tggattata atgcttgctt agtcaaagaa gagagactaa acaagggtaa 1320

```

```
aaattttaac agtacagaat ttgccatcat atcattgcct tgattctaac tgtttgtgtc 1380
ctaagatgca aaagaagtca gtggctttta actgtttaca aatagaatgt gattgtaaaa 1440
tgtacagttt ggttgtgttt gaattatgaa atttcttcag atataataaa ccatgacttt 1500
ttggctgtct aacattaatt gtctcctttt tgtgaattta tttgtaggct cttttttata 1560
atgaaagtgt caaagtttgct atgtatgagg gttctcatag agcaaccgat taaaaatcta 1620
agcaaataat tgaacatttt atctgaactc atcacaattt caccctgaaa taatgtgaga 1680
acaatgggaa actgtagctt gctccttccc accctctctg agcatctttg ggatcttggt 1740
gtcaaaaact cttctgtgac ttcatcttcc ccaccatttg tgcccatctc aagcctcagc 1800
aagaaaccaa gtggaacatg aagcttaatg acttgacagt gtactagtgt taaactctca 1860
tacctctgtt acaaagcgag aaacgccaca ccgggactgg ctttttcttc ccccttcacg 1920
gccctcgctt ctccctgcag gagctcgggg gcgaaacctg tgtatggatt tcagtgtatg 1980
acttcagatc atgctccaac ttgccagggt tgagctaatt ttgtcggaca ccttactata 2040
agcaaagtgt attcagtgcg ttcaatgtat attgacttcc atactgggtt ttccaaaaaac 2100
caaaggtagc ttgaaaaaac catgtctgga aatgtttgga gcgttaagct gattgacctt 2160
ctgaccttgg ggctttgagt agtatataat tcataactgc gtttaattgta ttgttaaagt 2220
gtttgggagt tttttgcgct tgttatgtgg aaataaagtg tttgatttaa aaaaaaaaaa 2280
aaaaaaaaaa aaaaaaaaaa 2299
```

<210> 565

<211> 364

<212> DNA

<213> Homo sapiens

<400> 565

```
ggcacagtga gacaggagcc cagggggagaa agacagaaac taagactcaa ggagcaacgc 60
aaagcaaaagt caaggagtca agaccagagt agctgagcag aggccaaagaa gggctctgaga 120
gggctgtgca gcagcaatgg ccctaaggat gctctgggct ggacaggcca aggggatcct 180
aggaggctgg gggatcatct gcttggtgat gtctctactc ctccagcacc caggagtcta 240
cagcaagtgc tacttccaag ctcaagcccc ctgtcactat gaggggaaat attttaccct 300
gggtkartct tggctccgca aggactgttt ccattgcacc tgtctgcac cgtgtgcgtg 360
ggct 364
```

<210> 566

<211> 2481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<400> 566

```
ggcacgwtg gaccgcgaga cgcgcgccct cgccgacagc cacttccgag gcctgggggt 60
cgatgtcccc ggcgtcggcc aggtccggg ccgggtagcc ttcgtctcgg agccggggcg 120
cttctcctac gccgactttg tgcggggcct cttgctgccc aacctgccct gcgtgttttc 180
```

```
cagcgccttc acgcagggct ggggcagccg gcggcgctgg gtgacgcccg cggggaggcc 240
cgacttcgac cacctgctac ggacctacgg agacgtgggt gtaccagttg caaactgtgg 300
ggtccaggaa tacaactcga accccaaaga gcacatgact ctgagagact acatcaccta 360
ctggaagag tacatacagg cgggctactc ctctcccagg ggctgtctct acctcaaaga 420
ctggcacttg tgcagggact ttccggtgga ggacgttttc accctgcctg tgtacttctc 480
gtccgactgg ctgaatgagt tctgggatgc actggatgtg gatgactacc gctttgtcta 540
cgcggggcct gcgggcagct ggtccccgtt ccatgctgac atcttccgct ccttcagctg 600
gtctgtcaat gtctgtggga ggaagaagtg gctcctcttc ccccagggc aggaagaggc 660
cctgcgggac cgccacggca acctgcccta cgacgtgacc tcccagcac tctgcgacac 720
acacctgcac ccacggaacc agcttgcctg cccacccttg gagatcacgc aggaagcggg 780
cgagatggtg tttgtgcccga gtggctggca ccaccagggt cacaacctgg atgacacat 840
ctccatcaac cacaactggg tcaatggctt caacctggcc aacatgtggc gcttcttgca 900
gcaggagcta tgcgcctgac aggaggagggt cagcgagtgg agggactcca tgcccactg 960
gcaccaccac tgccagggtc tcatgagggt ctgctcrggc atcaactttg aagagtttta 1020
ccacttcctc aaggctcatcg ctgagaagag gctcctggtc ctgagggagg cagccgctga 1080
ggacggtgct ggggttgggtt tcgaacaggc agcctttgat gttgggcgca tcacagaggt 1140
gctggcctcc ttggttgccg accccgactt ccagagagtg gacaccagcg cgttctcacc 1200
acagcccaaa grnntgctgc agcagctgag agaggctgtt gatgctgctg cggccccata 1260
gcacctgtcg tgaggataga aggacgggtg gacgagaggc agcctcctgc tccggggccc 1320
ttccagaaat aaagaccgcc ctccctgtga acctggggcc caccctgtc gaggcttgtg 1380
gcctggctgt tcatggccac tgcctgggtg cctgttttca ggtgaggccc aatgagggtc 1440
gggacccaag atgggatgtg gcccttctga cctgcagcag gcctgctggg agctcggaga 1500
tggtgccagg acctggctct tttgggggcc ctgcctcctt aggccaggac gcctgagctg 1560
acaggagtct gtgtctggtg tgccttctct ggtggctcct cttaataaggc cagccctgtc 1620
ccctcgtctc aggccatttg accaccctg gctctgcctg tgggttcagg gagggttg 1680
agcagtgtg ggcaagctca ccagggcctc caggcagggc tggggttgcc ctccatcacc 1740
tccagtgat gggctgtgga accagcgcc tgcgccttcc tctgggtacc cagagtggag 1800
ggctgggttg ggtggcctt tgccacctc ctgcctttgc agggcctgtg gacagctgga 1860
gaggccacag atggggtgga atcccatctg ctgctgaatc ctcacctggg cctgaggggac 1920
tgtgcctgct gtgactcac agctgggtct tcccaaggat gctgttctca ggagtgggtg 1980
gtccccagcc cctcttcaca ctgggtatga tggaggtgtg ggcgggctcg tccaggccga 2040
tcaaggcaca gcagttagca gcggaggcct gtggtgggga atggactctc gtgggatcct 2100
cttgagagg atgccccagg cctgaacct ctagtggatc cacagtttgt ggagactggc 2160
actctcccag ccctgtcctt gaccgagagt ccagcatttt ttcagttggc ccctgggttg 2220
ctgcctcacc ccagcagggg aggaggcatc cgaatccaca gggacggcac gtgccatggc 2280
tatgcacatt gcctgcccgt ggcatacaact ggggcccgtg gcacttgtct aggatggaag 2340
cccccaagaa gggcaggggt ttctgtctgc tctgttcagt gaatcatgtg aagtgttg 2400
aaaggcagct ttacacagta ggtgcttcat atgtgtctgt cgaatgaatg cgctccagcc 2460
aacaiaaaaaa aaaaaaaaaa a 2481
```

<210> 567

<211> 1364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1362)

<223> n equals a,t,g, or c

<400> 567

caagactctc ttcgtggcga gagtgaatta tgacacaaca gaatccaagc tccggagaga 780  
gtttgaggtg tacggacctt tcaaaagaat acacatgggtc tacagtaagc ggtcaggaaa 840  
gccccgtggc tatgccttca tcgagtacga acacgagcga gacatgcact ccgcttacia 900  
acacgcagat ggcaagaaga ttgatggcag gagggtcctt gtggacgtgg agagggggccg 960  
aaccgtgaag ggctggaggc ccggcggcta ggaggaggcc tcggtggtac cagaagagga 1020  
ggggctgatg tgaacatccg gcattcaggc cgcgatgaca cctcccgcta cgatgagagg 1080  
cccggcccc ccccgcttcc gcacagggac cgggaccggg accgtgagcg ggagcgcaga 1140  
gagcggagcc gggagcgaga caaggagcga gaacggcgac gctcccgtc ccgggaccgg 1200  
cggaggcgct cacggagtcg cgacaaggag gagcggaggc gctccaggga gcggagcaag 1260  
gacaaggacc gggaccggaa gcggcgaanc agccggagtc gggagcgggc ccggcgggag 1320  
cgggagcgca aggaggagct gcgtggyggc ggtggcgaca tggcgagacc tccgaggcgg 1380  
gtgacgcgcc cctgatgat gggcctccag gggagctcgg gcctgacggc cctgacggtc 1440  
cagaggaaaa gggccgggat cgtgaccggg agcgacggcg gagccaccgg agcgagcgcg 1500  
agcggcgccg ggaccgggat cgtgaccgtg accgtgaccg cgagcacaaa cggggggagc 1560  
ggggcagtg gggggcagg gatgaggccc gagggtgggg cggtggccag gacaacgggc 1620  
tgagggtct gggcaacgac agccgagaca tgtacatgga gtctgagggc ggcgacggct 1680  
acctggctcc ggagaatggg tatttgatgg aggtgcgcc ggagtgaaga ggtcgtcctc 1740  
tccatctgct gtgtttggac gcgttcctgc ccagccccctt gctgtcatcc cctcccccaa 1800  
ccttgggcac ttgagtttgt cctccaaggg taggtgtctc atttgttctg gccccttgga 1860  
tttaaaaaata aaattaattt cctgttgawa aaaaaaaaaa aaaaaaaaaa araaaaggag 1920  
agccgctctt agaggatccc tccgaggggg ncccaagctt tacgcgtggc atgncgaagt 1980  
caaaagccct ttcccc 1997

&lt;210&gt; 668

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

gcgcccgcgt gacgtcatct accccaaacg ctgtggcccc ggcacgcacg gcttcggggc 60  
gggactacgc ggtgacgtcg aggtgcgcgg cgcaccggcg tcmgtcttgg ctggcagacc 120  
tgtactccgt actccgtact tcgtagtcgc agcggcgcgg tcttcggcag tctagtcac 180  
caccgccatc ctgggcccc cgtgttgccct gaccattcct gagcccagggt gggagccgtg 240  
gctgaggtga cgtctcaaa gtggaagagc ttactgtcac agcaactcct ttgcaagatg 300  
ccccggccag gaatagttgc tgaacacccc aggcctgctg aggtccctcc ttgagtctca 360  
tgttcaagca gtctttgtcc atgaaactgg gaggcgaccg tgtagctgc cagttcctga 420  
cagccacctc tcaccagtgg cttcactctg tgtccctgac ccagcacatg gcacaagagt 480  
gctgccatcc gtcagtgtty tacagcagca atcccagatg stggaasyta agggactgac 540  
cctattgagg ttcgttatgg ttgtcagctt ttcctgaatt tttatt 586

&lt;210&gt; 669

&lt;211&gt; 1097

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

tcgaccacag cgtccggggc actccctatg ttactgacga gaccggcggc aagtatatcg 60  
cgtcaacaca gcgacctgac gggacctggc gcaascagcg gagggtgaaa gaaggatatg 120  
tgccccagga ggaggtecca gtatatgaaa acaagtatgt gaagtttttc aagagtaaac 180  
cagagttgcc cccagggcta agccctgagg ccactgctcc tgtcacccca tccaggcctg 240  
aagggtggtga accaggcctc tccaagacag ccaaagctaa cctgaagcga aaggagaaga 300

```
ggcggcagca gcaagagaaa ggagaggcag aggccttgag caggactctt gataaggtgt 360
ccctggaaga gacagcccaa ctcccagtg ctccacaggg ctytcgggca gccccacag 420
ctgcatctga ccagcctgac tcagctgcc aacttgagaa agccaagaag ataaagaacc 480
taaagaagaa actccggcag gtggaagagc tgcagcagcg gatccaggct ggggaagtca 540
gccagcccag caaagagcag ctagaaaagc tagcaaggag gagggcgcta gaagaggagt 600
tagaggactt ggagttaggc ctctraggcc tttggggaat aggggaatgga ctgcagaaca 660
aaccgtgggg ctctctgggg tctgggggaa tacgggcaac agcagtcagg aggggtaccc 720
cccatactgg cttccacctc ctgcggccca gctctgtcct ccagagccta gcgtctccct 780
caatccttcc cttttcttcc caacttctac tttttggact ttccccctcc cattcccagt 840
gttcaaaaatc tcagtacta cccaggtac ctttgctgct gatttggttg tcttggttaa 900
aagaaaatca ggtgggtggg aatctcttgg agaactgagg ctgagggtag agggagtatg 960
cccaagtctt ggagtcttgg ttctgttgc cgggtgttat gggttatttc cctctccatc 1020
cctcattttt tttttttttt taaaaaaagc aaaaatgaga ataacacaa gtagacatgt 1080
caaaaaaaaa aaaaaaa 1097
```

<210> 670

<211> 2900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2418)

<223> n equals a,t,g, or c

<400> 670

```
tcgaccacg cgtccggccg gctcgacgga ttgccatggc gccgctgctg gactacgagc 60
gacactggtg ctggaactgc tcgacactga cgggctagta gtgtgcgccc gcgggctcgg 120
cgcggaaccg ctccctctacc actttctcca gctgcactgc caccagcct gcctggtgct 180
ggtgetcaac acgcagccgg ccgaggagga gtattttatc aatcagctga agatagaagg 240
agttgaacac ctccctcgcc gtgtaacaaa tgaaatcaca agcaacagtc gctatgaagt 300
ttacacacaa ggtggtgtta ttttgcgac aagtaggata cttgtggttg acttcttgac 360
tgatagaata cttcagatt taattactgg catcttggtg tatagagccc acagaataat 420
cgagtcttgt caagaagcat tcatcttgcg cctctttcgc cagaaaaaca aacgtgggtt 480
tattaaagct ttcacagaca atgctgttgc ctttgatact ggtttttgtc atgtggaaag 540
agtgatgaga aatctttttg tgaggaaact gtatctgtgg ccaaggttcc atgtagcagt 600
aaactcattt ttagaacagc acaaacctga agttgtagaa atccatgttt ctatgacacc 660
taccatgctt gctatacaga ctgctatact ggacatttta aatgcatgtc taaaggaact 720
aaaatgccat aaccatcgc ttgaagtggg agatttatct ttagaaaatg ctattggaaa 780
accttttgac aagacaatcc gccattatct ggatcctttg tggcaccagc ttggagccaa 840
gactaaatcc ttagttcagg atttgaagat attacgaact ttgctgcagt atctctctca 900
gtatgattgt gtcacatttc ttaattctct ggaatctctg agagcaacgg aaaaagcttt 960
tggtcagaat tcagggttggc tgtttcttga ctccagcacc tcgatgttta taaatgctcg 1020
agcaagggtt tatcatcttc cagatgccaa aatgagtaaa aaagaaaaaa tatctgaaaa 1080
aatggaaatt aaaraagggg aagaaacaaa aaaggaactg gtcctagaaa gcaacccaaa 1140
gtgggaggca ctgactgaag tattaaaaga aattgaggca gaaaataagg agagtgaagc 1200
tcttggtggt ccagggtcaag tactgatttg tgcaagtgat gaccgaacat gttcccagct 1260
gagagactat atcactcttg gagcggaggc cttcttattg aggtcttaca ggaaaacctt 1320
tgagaaggat agcaaagctg aagaagtctg gatgaaattt aggaagggaag acagttcaaa 1380
gagaattagg aaatctcaca aaagacctaa agaccccaa aacaaagaac gggcttctac 1440
caaagaaaga accctcaaaa agaaaaaacg gaagttgacc ttaactcaaa tggtaggaaa 1500
```

```

acctgaagaa ctggaagagg aaggagatgt cgaggaagga tatcgtcgag aaataagcag 1560
tagcccagaa asctgcccgg aagaaattaa gcatgaagaa tttgatgtaa atttgtcatc 1620
ggatgctgct ttcggaatcc tgaaagaacc cctcactatc atccatccgc ttctgggttg 1680
cagcgacccc tatgctctga caagggtagt acatgaagtg gagccaagat acgtggttct 1740
ttatgacgca gagctaacct ttgttcggca gcttgaaatt tacagggcga gtaggcctgg 1800
gaaacctctg agggtttact ttcttatata cggagggttca actgaggaac aacgctatct 1860
cactgctttg cggaagaaa aggaagcttt tgaaaaactc ataagggaaa aagcaagcat 1920
ggttgtccct gaagaaagag aaggcagaga tgaaacaaac ttagacctag taagaggcac 1980
agcatctgca gatgtttcca ctgacactcg gaaagccggt ggccaggaac agaattggtac 2040
acagcaaagc atagtgtggg rtatgcgtga atttcgaagt gagcttccat ctctgatcca 2100
tcgtcgggac attgacattg aaccggtgac tttagagggt ggagattaca tcctcactcc 2160
agaaatgtgc gtggagcgca agagtatcag tgatttaatc ggctctttaa ataacggccg 2220
cctctacagc cagtgcattc ccatgtcccg ctactacaag cgtcccgtgc ttctgattga 2280
gtttgaccct agcaagcctt tctctctcac ttcccagggt gccttgtttc aggagatctc 2340
cagcaatgac attagtcca aactcactct tcttacactt cacttcccca gactacggat 2400
tctctggtgc ccctctctc atgcaacggc ggagttgttt gaggagctga aacaaagcaa 2460
gccacagcct gatgcggcga cagcactggc cattacagca gattcygaaa cccttcccga 2520
gtcagagaag tataatcctg gtcccgaaga ctctctgtta aaaatgccag gggatgaatgc 2580
caaaaactgc cgctccttga tgcaccacgt taagaacatc gcagaattag cagccctgtc 2640
acaagacgag ctacagagta ttctggggaa tgctgcaaat gccaaacagc tttatgattt 2700
cattcacacc tcttttgag aagtcgtatc aaaaggaaaa gggaaaaagt gaacagtgat 2760
ggctgttttc ttatcccatg cctgtacttt tcagcggctc cttgccagac atcataggctc 2820
attattaatt attggttgag tatttcattc ttttccaatg ctcttaatga ttgtacgggtg 2880
gaccagagtt cagagagccc

```

2900

&lt;210&gt; 671

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

```

tcgaccacag cgtccggctg cgcagaggcg cggcggctgt acaactcggc cgttgtcacc 60
atgccggtcg tccggaagat tttccgtcgc cgcggggcg actcggagtc agaggaagat 120
gagcaggact cagaggagg tgcattaaaa ctggaagaga ccagagargt acagaacttg 180
aggaagaggc ccaacggggt gagtgtgtgt gccttgctgg tgggagagaa ggtacaagag 240
gagaccactc tagtggatga tccctttcag atgaagacag gtggtatggt ggatatgaag 300
aaactgaagg aaaggggcaa agataagatc agtgaggagg aggacctgca cctggggaca 360
tcgttttctg cagaaaccaa ccgaaggatg aggatgcaga catgatgaag tacattgaga 420
cagagctaaa gaagaggaaa gggatcgtgg aacatgagga acagaaagt aagccaaaga 480
atgcagagga ctgtctttat gaacttccag aaaacatccg tgtttctca gcaaagaaga 540
ccgaggagat gctttccaac cagatgctga gtggcattcc tgagggtggac ctgggcacgc 600
atgctaaaaa aaaaaatatc atttccacgg aggatgccaa ggcccgtctg ctggcagagc 660
agcagaacaa gaagaaagac agcgagacct ccttcgtgcc taccaacatg gctgtgaatt 720
atgtgcagca caacagattt tatcatgagg agctcaacgc gcccatacgg agaaacaaag 780
aagagcccaa ggcccggccc ttgagagtag gygacacgga gaagccagag cctgagcggg 840
cccctcctaa ccgcaagcgt cctgctaacg agaaggcaac tgatgactat cattatgaga 900
agttcaagaa aatgaatagg cggtagtgag ttgtgcasag tgggatgtaa atatcgccct 960
cctctcccta tatccctccc atgaaaa

```

987

&lt;210&gt; 672

&lt;211&gt; 2825

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 672

```
cctcgagttc gtggtgatgt tggaaatggct ggagttgcta ttgacactgt ggaagatacc 60
aaaattcttt ttgatggaat tccttttagaa aaaatgtcag tttccatgac tatgaatgga 120
gcagttattc cagttcttgc aaattttata gtaactggag aagaacaagg tgtacctaaa 180
gagaarctta ctggtaccat ccaaaatgat atactaaagg aatttatggt tcgaaataca 240
tacatttttc ctccagaacc atccatgaaa attattgctg acatatttga atatacagca 300
aagcacatgc caaaatttaa ttcaatttca attagtggat accatatgca ggaagcaggg 360
gctgatgcc a ttctggagct ggcctatact ttagcagatg gattggagta ctctagaact 420
ggactccagg ctggcctgac aattgatgaa tttgcaccaa ggttgtcttt cttctgggga 480
attggaatga atttctatat ggaaatagca aagatgagag ctggtagaag actctgggct 540
cacttaatag agaaaatggt tcagcctaaa aactcaaaat ctcttcttct aagagcacac 600
tgtcagacat ctggatgggtc acttactgag caggatccct acaataatat tgtccgtact 660
gcaatagaag caatggcagc agtatttggg gggactcagt ctttgcacac aaattctttt 720
gatgaagctt tgggtttgcc aactgtgaaa agtgctcgaa ttgccaggaa cacacaaatc 780
atcattcaag aagaatctgg gattcccaaa gtggctgac cttggggagg ttcttacatg 840
atggaatgtc tcacaaatga tgtttatgat gctgctttaa agctcattaa tgaaattgaa 900
gaaatgggtg gaatggccaa agctgtagct gagggaaatc ctaaacttcg aattgaagaa 960
tgtgctgccc gaagacaagc tagaatagat tctggttctg aagtaattgt tggagtaa 1020
aagtaccagt tggaaaaaga agacgctgta gaagtcttctg caattgataa tacttcagt 1080
cgaaacaggc agattgaaaa acttaagaag atcaaatcca gcagggatca agctttggct 1140
gaacgtttgtc ttgctgcact aaccgaatgt gctgctagcg gagatggaaa tatcctggct 1200
cttgcaagtgg atgcatctcg ggcaaatgt acagtgggag aaatcacaga tgccctgaaa 1260
aagggtatttg gtgaacataa agcgaatgat cgaatggtga gtggagcata tcgccaggaa 1320
tttgaggaaa gtaagagat aacatctgct atcaagaggg ttcataaatt catggaacgt 1380
gaaggtcgca gctcgtcttc ttgtagcaaa aatgggacaa gatggccatg acagaggagc 1440
aaaagttatt gctacaggat ttgtgatctc tgggtttgat gtggacatag gccctctttt 1500
ccagactcct cgtgaagtgg ccagcaggc tgtggatgcg gatgtgcatg ctgtgggert 1560
aagcaccctc gctgctgggtc ataaaaccct agttcctgaa ctcatcaaag aacttaactc 1620
ccttgagcgg ccagatattc ttgtcatgtg tggaggggtg ataccacctc aggattatga 1680
atctctgttt gaagttgggt tttccaatgt atttggtcct gggactcgaa ttccaaaggc 1740
tgccgttcag gtgcttgatg atattgagaa gtgtttggaa aagaagcagc aatctgtata 1800
atctcctctt tttgttttag cttttgtcta aaatattatt ttagttatga tcaaagaaga 1860
gagtaaagct atgtcttcaa ttaatttca atacctgatt tgtactttcc ttgaaagctt 1920
tactttaaaa taccttactt ataggcctgg tgtcatgcta taagtatgta catacagttt 1980
cacttcaaaa ataaaaaaaa aatccctaaa aactctctat actctctata acaatacttt 2040
atcaagaact ctggacaatg gtattatttt taaaaatcat ggtgatgtat ttattagaat 2100
gtttcttata aatctgttta ctttttatat taagaattaa actgtacctt aaaaaactct 2160
gactattccc atttgtcagt ttagcattac attgtcttga gcaccagaaa ataaaaatcca 2220
tatattaata aaaacctatc ttgaaaaact agtggagtgt atttacgtgg caaaagagat 2280
tttggggagg gtcctcagcc aaattctacc agaatacct taataaaaga agtattaaaa 2340
tcaagcacag caggttgga tatggggaat ttgacagtat atttcttcaa gtctgagttt 2400
acttcttcc tgatcatgac catctgacct tgttatttct gggcttggct caagaccaag 2460
gagagtggat gttgatgaac attcctttaa ataaaagtgc ttaggttgta gttatggctt 2520
tgtctagaat ggtgatgtca actgtgagt taggtctgtg atatagaaag aattcaactt 2580
tccagatcta gaaagatgct acctgcata gatttgcctc ttaaacataa attgcaaaaa 2640
taaaaaatc acagagaaca cctgtacttt gcttactgaa agatttgctc actaaagaag 2700
gaaagttgcc atttacctgt ttaacaaatc tgcacatcct gcacatgttc ccagaaatgt 2760
aaaataaaaa aagtttaaat aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaac 2820
```



tcgag

2825

&lt;210&gt; 673

&lt;211&gt; 1430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (435)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1046)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1409)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1413)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 673

```
ttagccaact ctaatacgac tcaactmtagg ggaaagctgg tacgcctgca gtaccggtcc 60
gaattcccgg gtcgaccac gcgtccggtt ccaaaatggc ggcaggggtg gccgggtggg 120
gggttgaggc agaggagttc gaagatgctc ctgatgtgga gccgctggag cctacactta 180
gcaacatcat cgagcagcgc acctgaagtg gatcttcgtc gggggcaagg gtggtgtggg 240
caagaccacc tgcagctgca gcctggcagt ccagctctcc aaggggcgtg agagtgttct 300
gatcatctcc acagaccag cacacaacat ctcatgatgt tttgaccaga agttctcaaa 360
ggtgcctacc aaggtcaaa gctatgacaa cctctttgct atggagattg accccagcct 420
gggcgtggcg gastngcctg acgagttctt cgaggaggac aacatgctga gcatgggcaa 480
gaagatgatg caggaggcca tgagcgcatc tcccggcatc gatgaggcca tgagctatgc 540
cgaggctcatg aggctggtga agggcatgaa cttctcgttg gtggtatttg acacggcacc 600
cacgggccac accctgaggc tgctcaactt ccccaccatc gtggagcggg gcctgggccg 660
gcttatgcag atcaagaacc agatcagccc tttcatctca cagatgtgca acatgctggg 720
cctgggggac atgaacgcag accagctggc ctccaagctg gaggagacgc tgcccgtcat 780
ccgctcagtc agcgaacagt tcaaggaccc tgagcagaca actttcatct gcgtatgcat 840
tgctgagttc ctgtccctgt atgagacaga gaggctgatc caggagctgg ccaagtgcaa 900
gattgacaca cacaatataa ttgtcaacca gctcgtcttc cccgaccccg agaagccctg 960
caagatgtgt gaggcccgtc acaagatcca ggccaagtat ctggaccaga tggaggacct 1020
gtatgaagac ttccacatcg tgaagntgcc gctgttacct catgaggtgc ggggggcaga 1080
caaggtcaac accttctcgg ccctcctcct ggagccctac aagcccccca gtgcccagta 1140
gcacagctgc cagccccaac cgctgccatt tcacactcac cctccaccct cccaccccc 1200
tcgggggcaga gtttgacaaa agtccccccc ataatacagg gggagccact tgggcaggag 1260
gcagggaggg gtccattccc cctggtgggg ctggtgggga gctgtagttg cccctacct 1320
ctccacctc ttgtcttca ataaaatgat cttaaactgc aaaaaaaaaa aaaaaaaaaa 1380
```

aaaaaaaaaa aaaaaaaaaa aaaaaaana aanttaaaaa aaaaaaaaaa

1430

&lt;210&gt; 674

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1098)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1103)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1120)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 674

ggcacgagga	gagaggtcag	ggtaggtttt	traagatggc	ggccctcaag	gctctggtgt	60
ccggctgtgg	gcggettetc	cgtgggctac	tagcgggccc	ggcagcgacc	agctggtctc	120
ggcttccagc	tcgcgggttc	agggaagtgg	tggagaccca	agaagggaag	acaactataa	180
ttgaaggccg	tatcacagcg	actcccaagg	agagtccaaa	tcctcctaac	ccctctggcc	240
agtgccccat	ctgccgttgg	aacctgaagc	acaagtataa	ctatgacgat	gttctgctgc	300
ttagccagtt	catccggeet	catggaggca	tgctgccccg	aaagatcaca	ggcctatgcc	360
aggaagaaca	ccgcaagatc	gaggagtgtg	tgaagatggc	ccaccgagca	ggtctattac	420
caaatcacag	gcctcggctt	cctgaaggag	ttgttccgaa	gagcaaacc	caactcaacc	480
ggtacctgac	gcgctgggct	cctggctccg	tcaagcccat	ctacaaaaaa	ggcccccgct	540
ggaacagggg	gcgcatgccc	gtgggggtcac	cccttctgag	ggacaatgtc	tgctactcaa	600
gaacaccttg	gaagctgtat	cactgacaga	gagcagtgtc	tccagagttc	ctcctgcacc	660
tgtgctgggg	agtaggaggg	ccactcacia	gcccttgggc	acaactatac	tcctgtccca	720
ccccaccacg	atggccttgt	ccctccaaca	tgcattggaca	ggggacagtg	ggactaactt	780
cagtaccctt	ggcctgcaca	gtagcaatgc	tgggagctag	aggcaggcag	ggcagttggg	840
tcccttgcca	gctgctatgg	ggcttagggc	atgctcagtg	ctggggacag	gagttttgcc	900
caacgcagtg	tcataaactg	ggttcatggg	cttaccatt	gggtgtgcgc	tcactgcttg	960
ggaagtgcag	ggggtcctgg	gcacattgcc	agctgggtgc	tgagcattga	gtcactgata	1020
tcttgtgatg	gggccaatga	gtcaattgaa	ttcatggggc	aaacaggtcc	catcctcttc	1080
aaaaaaaaara	aaaaaaancc	cgnggggggg	cccgaaccn	aattc		1125

&lt;210&gt; 675

&lt;211&gt; 1077

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (523)

<223> n equals a,t,g, or c

<400> 675

```
acccacgcgt ccgagagtc accttgcgac cgtatccgct agcgcggcct gggatgcgct 60
tgggctccct gttcgttccc acatgcaggg cagcacaagg agaatgggag tcatgactga 120
tgtccaccgg cgcttcctcc agttgctgat gacccatggc gtgctagagg aatgggacgt 180
gaagcgcttg cagacgcact gctacaaggc ccatgaccgc aatgccaccg tagataagtt 240
ggaggacttc atcaacaaca ttaacagtgt cttggagtc tttgtatattg agataaagag 300
aggagtcacg gaagatgatg ggagacccat ttatgcgttg gtgaatcttg ctacaacttc 360
aatttccaaa atggctacgg attttgcaga gaatgaactg gatttgttta gaaaggctct 420
ggaactgatt attgactcag aaaccggctt tgcgtcttcc acaaacatat tgaacctgg 480
tgatcaactt aaaggcaaga agatgaggaa gaagggaagc gancagggtg tgcagaagtt 540
tggtcaaaaac aagtggctga ttgagaagga aggggagttc accctgcacg gccggggccat 600
cctggagatg garcaatata tccgggagac gtaccccgac gcggtgaaga tctgcaatat 660
ctgtcacagc ctctcatcc agggcctaaa gtgcgaaacc tgggggatca ggatgcactt 720
accctgcgtg gccaaagtact tccagtcgaa tgctgaaccg cgctgcccc actgcaacga 780
ctactggccc cacgagatcc caaaagtctt cgaccctgag aaggagaggg agtctggtgt 840
cttgaaatcg aacaaaaagt cctgcggtcc aggcagcatt agccatcgtg cctgctgtag 900
gggctggctg ccttgagtgg cctgatcgcc acagcccttc ttggaagaaa ggcgtcygtg 960
tttcaggttc cacgcgagtc acctctttcg tcttaatgtt caccgtccac agctttggaa 1020
taaaccatcc tgggaagttr aaaaaaaaaa aaaaaaaaaa tttggggggg gggggccc 1077
```

<210> 676

<211> 920

<212> DNA

<213> Homo sapiens

<400> 676

```
ctgagtggag ctgggggctg cgtaggggag ctgagccgag yggctgggag ggcctgggsk 60
ggccagcggg ggggagacgt cggttgagcg gcggcgaaca tgcgcttttg acacattgga 120
ggctttcttg atcatggatg gtgaagatat accagatttt tcaagttaa aggaggaaac 180
tgcttatttg aaggaacttt ccttgaagta taagcaaagg gcaacaatag tttcactgga 240
agactttgaa caaaggctaa accaggccat tgaacgaaat gcatttttag aaagtgaact 300
tgatgaaaag gaatctttgt tggctctctg acagaggtta aaggatgaag caagagattt 360
aaggcaagaa ctagcagttc gggaaagaca acaggaagta actagaaagt cggctcctag 420
ctctccaact ctgactgtg aaaagatgga ctccgcccgc caagcatcac tttctttgcc 480
agctaccctt gttggcaaa gaacggagaa cacttttctc tcaccgaaag ctataccaaa 540
tggttttggt accagtccac taactccctc tgctaggata tcagcactaa acatcgtggg 600
gggatctctt acggaagta ggggcttttag aatccaaatt agcagcttgc aggaattttg 660
caaaggacca agcatcacgr aaatcctata tttcagggaa tgtaactgt ggggtgctga 720
atggcaatgg cacaaagttc tctcgatcag ggcatacatc tttcttcgac aaaggggcag 780
taaacggctt tgaccccgct cctcctcctc ctctgggcag ctgtatagga tcatcatgtg 840
gttacaaaaa atacttccct caaaaaaatt cttttaatgt ggaaacaata aatttcacag 900
aaaaaaaaaa aaaaaaaaaa
```

920

<210> 677

<211> 1247

<212> DNA

<213> Homo sapiens

<400> 677

caaagtactg gttctttaac tcctaccttt ctctcctctc ttcctgtaat gttgttactg 60  
aaggcaggaa gggagactcc ttggctaaag agcagagcaa gagcctcaaa gtggtccttg 120  
tgagccaccc tggactactg gttcagtaga ggggttgagtc aagcaatatt tgaggacggg 180  
atataaacag tatttcttaa agttgtcacc aatttttccc ccgatgaggc cattccagac 240  
ccaaattagt cataacagag ccaggacaat aatcacatct cctgattctg agcctgaatg 300  
cttcccacag gactgcgtcg ctcccaatgc tctgaggtcc attgtggggg aaagtgtgcca 360  
ctgggattcc acctcaaggc ctggggacca agcctccagg attcctcttg agactcctcc 420  
actatttcat taccatcccg ccacatcttc tagtgctatg ccctgggttc ctttggaatc 480  
ctctcaatcc caaagaaggc ctctaccac ctctaaggca tcaaagggtg tagaaagtgc 540  
cccaagactc aacaggggcat ccacatcttc atagaagaca ctgggtgcctg gtgtgtaggt 600  
gtcctgggtt ttgcagtagt cggtcaggag gtttttgaac cgatagcaac attgctccag 660  
ggccacaggg aagccatgtt ctacagctg ctacagcata atccgggtaca cctgggtggtt 720  
tcgatggcag gtgcggagtt tttcgtggat ccargcctct gagaattccc agaaaaatct 780  
tggtttcttt gtatcccagt gcactcctgc caccttctca tcctccaggg cctgccactc 840  
cagctcgtc caggtyttgg cttttctcca gattagcacc tggccagact tgactctcac 900  
cccagccact gagcagtcct tcacactctc tttttctcca gaatttgaag atctagatgc 960  
tgtgggtttt matcctactc cacgtgggag ttcactttgg gcctatggat tggaaaatct 1020  
gtttgcaggc agacaaaagg gagatgtaat ggtttggtaa atctaattccc aaccatttta 1080  
tatgccarg agaggagata gtaatttttt tttttaattc tggggggatt cttgggaaag 1140  
ctcagtgaag agaacaacta gaaaaaaaaa ttcaggccca aatgcataac tatatatcca 1200  
cgttcactta tcttaataa aaytcagaca catacctaaa ctgaaaa 1247

<210> 678

<211> 2667

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<400> 678

cagtstggtt ggagctggtt tcttgatgct tcagcgaggc ccggagagac ccgggagaga 60  
gctaggccga gtccaccgcc cgagctctgct gcccgagccc gcgttacgca caaagccgcc 120  
gatccccggc ctgggggtgag cagagcgacc accgcccggg agcagcgcg cgagacgcac 180  
gggtgcgccct atgccccgc gccccaccg cccccgccgc ggcagccgaa gcgcagcgag 240  
agaacgcgcc accgcggggc ccgggtgcag ctagcgaccc tctcgccacc tgcgcgcagc 300  
ccgaggtgag cagtgcgcgc cgagcgggag ggcagcgagg cgttcgcggg cccctcctg 360  
ctgccccggc ccggccgctc atggcgccca tccgcaagaa gctgggtggtg gtgggcgacg 420  
gcgcgtgtgg caagacgtgc ctgctgatcg tggtcagtaa ggacgagttc cccgaggtgt 480  
acgtgcccac cgtcttcgag aactatgtgg ccgacattga ggtggacggc aagcaggtgg 540  
agctggcgct gtgggacacg gcgggccagg aggactacga ccgcctgcgg ccgctctcct 600  
accgggacac cgacgtcatt ctcatgtgct tctcgggtga cagcccggac tcgctggaga 660  
acatccccga gaagtgggtc cccgaggtga agcacttctg tcccaatgtg cccatcatcc 720  
tggtggccaa caaaaaagac ctgcgacgcg acgagcatgt ccgcacagag ctggccccga 780  
tgaagcagga acccgtgcgc acggatgacg gccgcgccat ggccgtgcgc atccaagcct 840  
acgactacct cgagtgtctt gccaaagacca aggaaggcgt gcgcgaggtc ttcgagacgg 900  
ccacgcgcgc cgtgcagaa gcgctacggc tcccagaacg gctgcatcaa ctgctgcaag 960  
gtgctatgag ggccgcgcgc gtcgcgcctg cccctgcccg cagggtccc cctcctggac 1020  
cagtcccccg cgagcccgga gaaggggaga cccgtgtccc acaaggaccc caccggcctg 1080

cctggcatct gtctgctgac gcctctggct tgcgccagga cttggcgtgg gcaccgggcg 1140  
ccccatccc agtgtctgtg tgcgtccagc tgtgttgac aggcctgggc tccccactga 1200  
gtgccaaagg tcccctgagc atgcttttct gaagagccgg gcctcagagt gtgtggctgt 1260  
gtgtctgttc gactcccctc gccccatttt caccaccacc ccgctctga tccccggggg 1320  
cgagattggc gcgggagtgt ggccgcgccc catcagatgt tckcccttca ccagcgggag 1380  
cttgatatcc cttgtctgta acatagacc cgggtactgc gggaggggag ggctgctggg 1440  
gaggatgggg ggatgttata taaatataga tataatttta ttttcggagc taagatggtg 1500  
ttattttaagg gtggtgatgg gtgagcgctc tggcccaggc tgggcmagac tcccgcctaa 1560  
gcatgaacag gacttgacca tctttccaac ccctggggaa gacatttgca actgacttgg 1620  
ggaggacaca gcttcagcac agcctctcct cggggccagc ccgctgcgaa ccctccacca 1680  
gctaccggag ggaggaggga ggatgcgctg tggggttgtt tttgccataa gcgaactttg 1740  
tgctctgctc agaagtgaat attgttcagt ccaagaaact gatgttattt gatttattta 1800  
aaggctaaaa tttgtttttt tattctttgc acaattgttt cattgtttga cacttaatgc 1860  
actcgtcatt tgcatacgac agtagcattc tgaccacact tgtacgctgt aacctcatct 1920  
acttctgatg tttttaaaaa atgactttta acaaggagag ggaaaagaaa cccactaaat 1980  
tttgctttgt ttccttgaag aatgtggcaa cactgttttg tgattttatt tgtgcaggtc 2040  
atgcacacag ttttgataaa gggcagtaac aagtattggg gcctattttt ttttttttcc 2100  
acaaggcatt ctctaaagct atgtgaaatt ttctctgcac ctctgtacag agaatacacc 2160  
tgccctgtga tatccttttt tcccctcccc tccctcccag tggacttct actaaattgt 2220  
tgtcttgttt tttatttttt aaataaaactg acaaatgaca aaatggtgag cttatgatgt 2280  
ttacataaaa gttctataag ctgtgtatac agttttttat gtaaaatatt aaaagactat 2340  
gatgatgaca tttaaaaaaa tggctcttgt ggtttaatag tgtgtaaaaa tacccttgtg 2400  
aatttggaac aaggagagata ttctcctagg cgagrtcctt tcttgcccaa ctccgtttcc 2460  
cttatrgcaa atgtagtaaa tgagggtgaa gtccctttga grgcatgtgg ggggtgggtg 2520  
accaaggag accrggtgt tcctgtcaca ttcttagagg aagatgagt gataccccga 2580  
caccagtg ccaaaacttt gncctattat gtactcagtt caattgggtg agaccgaaga 2640  
tcttgatttc attcatctgt gtgtctt 2667

&lt;210&gt; 679

&lt;211&gt; 952

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 679

gtaccgggtcc ggaattcccc ggtcgaccca cgcgtccgcg gtacgcgtgg gcggacgcgt 60  
gggcgcgagg ggcggagctt gtggaggaag atggctgcc cctgggggtc gtccetaacg 120  
gccgcgacgc agagagcggg cactccctgg ccgaggggca ggctcctcac ggcctccctg 180  
ggaccccagg cgcgtcggga ggcgtcgtcc tccagccccg aggcggcgga agggcagatc 240  
cgctcacag acagttgcgt ccagaggctt ttggaaatca ccgaaggktc agaattcctc 300  
aggctgcaag tggagggagg tggatgctcc ggattccaat acaaattttc actggataca 360  
gttatcaacc ccgacgacag ggtatttgaa cagggtgggg caagagtggg ggttgactct 420  
gatagcttgg cttcgtgaa aggggccag gtggacttca gccagaact gatccgaagc 480  
tcatttcaag tggtgaacaa tcctcaagca cagcaaggct gtcctctgtg gtcatctttc 540  
tctatcaaac tttgatgtga tgactggtga ctctgggatt gtcaccagtt gtaccaattt 600  
gaagaacctg gaattagtag aattctagaa gtttacttct aatcatgtcc ctctcaattt 660  
tatttccgc agtccaggag tgttatgttt tgccactatt attttcagaa tgtgaagatt 720  
ttactcttgg cttaattttt ccctccactc agtgctaagg ctgagcctcc agatgctgtt 780  
acctcagatt taactactgg ttgaaactcc gtataatctg tagagcctcc atggctctaa 840  
aatttggaat taacttctct tgccttaaga gctgcttgta catatgtgga tagctatgta 900  
taaaagcttc attttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 952

<210> 680  
<211> 2309  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<400> 680  
gcangccccg sggggggcgc cagcaccacc cgccctacca ccagcagcat caccaggggc 60  
ccccgccccg cggccccggc gccgcagcga ggagaagatc tcggactcgg aggggtttta 120  
agccaatttg tctctcttga ggaggcctgg agagaaaact tacacacagc gatgtcgggt 180  
gtttgttggg aatctacctg ctgatatac ggaggatgaa ttcaaaagac ttttgctaa 240  
atatggagaa ccaggagaag tttttatcaa caaaggcaaa ggattcggat ttattaagct 300  
tgaatctaga gctttggctg aaattgccaa agccgaactg gatgatacac ccatgagagg 360  
tagacagctt cgagttcgct ttgccacaca tgctgctgcc ctttctgttc gtaatctttc 420  
accttatgtt tccaatgaac tgttggaaga agccttttagc caatttggtc ctattgaaag 480  
ggctgttcta atagtggatg atcgtggaag atctacaggg aaaggcattg ttgaatttgc 540  
ttctaagcca gcagcaagaa aggcatttga acgatgcagt gaagggtgtt tcttactgac 600  
gacaactcct cgtccagtca ttgtggaacc acttgaaaca ctagatgatg aagatgggtc 660  
tcctgaaaaa cttgcccaga agaattccaa gtatcaaaag gagagagaaa cccctcctcg 720  
ttttgcccag catggcacgt ttgagtacga atattctcag cgatggaagt ctttggtatga 780  
aatggaaaaa cagcaaaagg aacaagtga aaaaaacatg aaagatgcaa aagacaaatt 840  
ggaaagtga atggaagatg cctatcatga acatcaggca aatcttttgc gccaagatct 900  
gatgagacga caggaagaat taagacgcat ggaagaactt cacaatcaag aaatgcagaa 960  
acgtaaagaa atgcaattga ggcaagagga ggaacgacgt agaagagagg aagagatgat 1020  
gattcgtcaa cgtgagatgg aagaacaaat gaggcgcaa agagaggaaa gttacagccg 1080  
aatgggctac atggatccac gggaaaagaga catgcgaatg ggtggcggag gagcaatgaa 1140  
catgggagat ccctatgggt caggaggcca gaaatttcca cctctaggag gtggtggtgg 1200  
cataggttat gaagctaate ctggcggtcc accagcaacc atgagtgggt ccatgatggg 1260  
aagtgcacat cgtactgagc gctttgggca gggagggtgc gggcctgtgg gtggacaggg 1320  
tcctagagga atggggcctg gaactccagc aggatatggt agagggagag aagagtacga 1380  
aggcccaaac aaaaaacccc gatttttagat gtgatattta ggctttcatt ccagtttgtt 1440  
ttgttttttt gtttagatac caatctttta aattcttgca ttttagtaag aaagctatct 1500  
ttttatggat gtttagcagtt tattgacctt atatttgtaa atgggtctgt tgggcaggta 1560  
aaattatgta atgcagtgtt tggaacagga gaattttttt ttccttttta tttctttatt 1620  
ttttcttttt tactgtataa tgtccctcaa gtttatggca gtgtacctg tgccactgaa 1680  
tttccaaagt gtaccaattt tttttttttt actgtgcttc aaataaatag aaaaatagtt 1740  
ataatattga tcttcaactt tgccattcat gcttctatgc atattaggct acgtattcca 1800  
cattgaaagc atgagagtgt ctaggccttt gaatggcata tgccatttct gggaaatgca 1860  
tctggaggct aagtattgct ttctacaaat aattgcccc tttgttttaa aaagaagaaa 1920  
tgcatattga agtagtttga tgatttgttt ggcataatag aagcacgctg gtgctaagta 1980  
ttttttaaat ggttatgtaa gcaaagctga actgtaaatc ttcaggaata tgtattaaga 2040  
ttgtggaatg ggtgtaagac aattggtagg gggtgaaagt gggtttgatt aaatggatct 2100  
tttatggccc tatgatctat cctttacttg aaagcttttg aaaagtggaa aggtcatttt 2160  
gttgcatctt cccatttctt gtttttaaaa gaccaacaaa tctcaagccc tataaatggc 2220  
ttgtattgaa cttttacatt tgaattaaag atgttaaaca tgaaaaaaa aaaaaaaa 2280  
aaaagggcsg ccgswcgcga tgctagaac 2309

<210> 681  
<211> 451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (370)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (419)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<400> 681  
agggcccctgc ccccaacttct tgcagcctca aaccctgcat tgggcatacct gtccccctctt 60  
caggttattc ctgtcacgtg gggccaaccc tgagctgcgg aacaaagagg gggacacagc 120  
atgggaacct gactcccagag cgctccgacg tgtggtttgc gcttcaactc aaccgcaagc 180  
tccgacttg ggtgggaaat cgggccatcc gcacagagaa gatcatctgc cgggacgtgg 240  
ctcggggcta tgagaacgtg cccattccct gtgtcaaggt gtggatgggg agccctgccc 300  
tgaggattac aagtacatct cagagaactg cgagacgtcc accatgaaca tcgatcgcaa 360  
catcacccan ctgcagcaat gcaagttgtt gttggaacga attgctctaa gcttccaant 420  
tgccctgtnc cggccaagct tcaagcaatc c 451

<210> 682  
<211> 1298  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1294)  
<223> n equals a,t,g, or c

<400> 682  
agaggtttgc catggtgggc atcgcgagac cctgcagtc tggmagccgc cgcgggagggc 60  
tgaatccctg carcccatga cgggtggtggg tacagactac gtgttccaca atgacaccaa 120  
ggtcgtcttc ctgtccccgg ctgtgcctga ggagccagag gcctacaacc tcacggtgct 180  
gatcgagatg gacgggcacc gtgccctgct cagaacagag gccggggcct tcgagtacgt 240  
gcctgacccc acctttgaga acttcacagg tggcgtcaag aagcagggtca acaagctcat 300  
ccacgcccgg ggcaccaatc tgaacaaggc gatgacgctg caggaggccg aggccttcgt 360  
gggtgcccag cgctgcacca tgaagacgct gacggagacc gacctgtact gtgagcccc 420  
ggaggtgcag cccccgccca agcggcgga gaaacgagac accacacaca acctgccccg 480  
gttcattgtg aagttcggct ctcgcgagtg ggtgctgggc cgcgtggagt acgacacacg 540  
ggtgagcgac gtgccgctca gcctcatctt gccgctgggc atcgtgcccc tgggtggtcgt 600

catcgcggtg tctgtctact gctactggag gaagagccag caggccgaac gagagtatga 660  
gaagatcaag tcccagctgg agggcctgga ggagagcgtg cgggaccgct gcaagaagga 720  
attcacagac ctgatgatcg agatggagga ccagaccaac gacgtgcacg aggccggcat 780  
ccccgtgctg gactacaaga cctacaccga ccgcgtcttc ttcctgccct ccaaggacgg 840  
cgacaaggac gtgatgatca ccggcaagct ggacatcccy gagccgcggc ggccggtggt 900  
ggagcaggcc ctctaccagt tctccaacct gctgaacagc aagtctttcc tcatcaattt 960  
catccacacc ctggagaacc agcgggagtt ctcggcccgc gccaaaggtct acttcgcgtc 1020  
cctgctgacg gtggcgctgc acgggaaact ggagtactac acggacatca tgcacacgct 1080  
cttcctggag ctctctggagc agtacgtggt ggccaagaac cccaagctga tgctgcgcag 1140  
gtctgagact gtggtggaga ggatgctgtc caactggatg tccatttytg caccaatytg 1200  
acaaggcgat gacscttcag gaagcccaag ccttctgggt gcccaascgc ttgcaccatg 1260  
aaaaacgctt gacggaaacc gactttactg tgancccc 1298

<210> 683

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 683

accacgcgt ccgctgcaac ttgagaaggt cacggctgag gccaaagatca agaaactgga 60  
ggatgagatc ctggatcatgg atgatcagaa caataaacta tcaaaagaac gaaaactcct 120  
tgaggagagg attagtgact taacgacaaa tcttgacaga gaggaagaaa aggccaaaga 180  
tcttaccaag ctgaaaaaca agcatgaatc tatgatttca gaactggaat gcggctaaag 240  
aaggaagaga agagccgaca ggagctggag aagctgaaac ggaagctgga gggatgatgcc 300  
agcgacttcc acgagcagat cgctgacctc caggcgcaga tcgcagagct caagatgcag 360  
ctggccaaga aggaggagga gctgcaggs ggcctggcca ggcttgacga tgaaatcctn 420  
cagaagaaca atgccctgaa gaagatccgg gagctggagg gccacatctc agacctccag 480  
gaggacctgg actcagagcg ggccgccagg aacaaggctg aaaagcagaa gcgagacctc 540  
ggcgaggagc tggaggccct aaagacagag ctggaagaca cactggacag cacagccact 600  
cagcaggagc tcagggccaa gagggagcag gaggtgacgg tgctgaagaa ggccctggat 660  
gaagagamgc ggtcccatga ggctcaggct caggagatga ggcagaaaca cgcacaggcg 720  
gtggaggagc tcaagcaacg agctggccac agagcgcaca cgggcccaga agaattgagag 780  
tgcccggcag cancttcag cggcagaaca aggagctccg gagcaagctc ccacgagatt 840  
ggagggggcc gtcaagtcc 859

<210> 684

<211> 1251

<212> DNA

<213> Homo sapiens

<220>



<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<400> 684

```
ggcacgagga gcctctccta caagatgact cataagccca gtgtggggta atatacagag 60
gtccaggagc gtgcctcttt tcccctctgg gcttgtgttg ggtggcattt gggcacgagg 120
gcctcttcta gccctcctag ctagcttcaa catcataagc gtcttgaacg cagagtgtta 180
cctgaaacag attttacatc ctacttctca ttttacagtt tcagagactc ctccactctc 240
tgggaatgac acggactccc tctcctgcga cagtggcagt tcggcaacta gcactccgtg 300
tgtgtcccgc ctggtcactg gccaccacct gtgggccagc aagaatggcc gccatgtcct 360
gggcctgatt gaggactatg aggccctgct caaacagatc agccagggac agaggctcct 420
tgctgaaatg gacattcaaa cccaagaggc tcccagctcc acaagtcaag agctgggaac 480
aaagggcca caccagcac cactgagcaa gtttgtgagc agtgtgagca cggccaagct 540
gaccctggaa gaggcctaca ggcggtgaa gcttctcttg agagtctcac tccccgagga 600
tggccagtgc ccccttcaact gtgagcagat tggagaaatg aaggcagagg tcaccaaact 660
acataaaaaa ttgtttgaac aagaaaagaa gttgcaaaac accatgaagc ttttgcagct 720
gagcaagcgc caggaaaaag tcacttttga tcaattgggtc gtaaccacaa aaatccttcg 780
gaaggccaga ggaaacctgg agcttaggcc tgggggagcc catccaggaa catgagctcc 840
cagcagacca ggctcctgag aagaactttc agccaataaa gcttgtgctt cccccaccga 900
gctcacgctg tctctttgtt ccaagtgtgg ttctatttta ttgaggaaga aagagctgtc 960
tggccaaaag aaatctattt ttcccttcca tgttttctct ctgaaagttg gcttgagagt 1020
tgttgtcaga aagggtgcagg tgctccacaa acgggtggta aaaaggcctc gagctcttg 1080
atgttgatt tcagatcagg ggcaggcacc ggagttgagg ctgtgcgcct tgggtgggctt 1140
cacgtcttcc cctggatttg cttagtactc agccagtgcc acagtttgaa gattctcatt 1200
aatgattca ttctatttca aaaaaaaaaa aaaaaaaaaa aaaaaaant a 1251
```

<210> 685

<211> 2600

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1905)

<223> n equals a,t,g, or c

&lt;400&gt; 685

```
cgcaacctat gcaaggggtg tccaaaaagc ccaagctnaa gccaaagctgc ctcccgnact 60
cccatcgacc ccaggggtgca agaggacgtg gtgaatggcg ttttccccag gtcggaagac 120
ggaaagaccg gaggcagtag ctgcaaagcc cttggaaaca ccctggatgc tgttgagggc 180
caagagatct gtgtggctcc tgggccggct gagtggcagc agccccctt gccccacctc 240
ccccttcccc tacccaaccc tgccctgccc caccacacct cacagctact cagtggggct 300
ggcatcaagg gagacaccag tgggtgcgttt ataattggct taaagggatg gacttgatgat 360
tggctgcagg aagaaacttt tttatTTTTT aaatcttgac caacagaaac cttttatTTTT 420
tatttctgac tcttattTTTT taaaaatTTT gcgcctcggg atctggcttc cctggnaact 480
ctccgagctc tgggtgcttta gttaggtcat ttttttagaa atgtgaagag gtctgattgg 540
ctgcttaaac tggaaaggga ctgtgattgg ctgggttaatg ggaaacgggt tttttctttg 600
gctgcagggt ttctgctgat atcaacagct tccctatttt gaatgcagaa aacagggtct 660
gggacattag tcgttatatt tgacttgaaa agaaagaaac caagtgcgct ttgcaatatt 720
tattacacaa agaacttgct gctgccttca catttggggg ttgtgtttga ttggctttcg 780
atgcgtgtgt ttggtttccc attggttcac ctgtgactcc tgttgccatg gattcacccc 840
cctctgctgc cggtctggg cctgagggtc cacctggaga gtacatttgc tttaatgagt 900
gcacctgcct ccaccagcaa ggggacccc agaacctga gcagggtcca cagctggaaa 960
gttgggcccc tgaggagctt tgtgtcgtct tgaacgagca gccaggggcc tagaggtaac 1020
cgttagcggg atttatgtgc actgcctgca tgagctggca accagccacg tcccttggtg 1080
agaaagggat tgctgaggca ccgtccaggc cccaccggcc aggccgcgcc cagcagaggc 1140
gtactacca gctctgtcct cttggccatc cttctgtgta ccacttcctg aggcctcatt 1200
ttgggggtca tcttggaag gggaggagct tctcccagtg tgagacccca aagactctgg 1260
aggtcatctg gcggaggtct ctgggagccc agaaccaca taaaagcccc agcttggtct 1320
cacaaggccc agggagacct ccagctaaac accaaccctt gacctacccc agccaggctc 1380
ctacctgtyt gctgccagca cagtaggtcc cggccagctc tggagtcttc tcatcgagg 1440
cccatgccct ccactccact gcctttggaa gggctctctc ccaggctcag ctggaaggga 1500
cagtatcggt tgtttatgaa atgccactgg gacagctggc tgggccttca ccaagcaagt 1560
cccttcagac tggcccttaa gccaaactca ggcccagaat tgcagttcag aatggcagtc 1620
ctggaggcag ggggtgaggg gcaggtctag tgttcctgca ccaaacctaa gtccttcac 1680
ctgccacccc cttccctggg agggaggtgg tccctctatc tccctggctc actggcagg 1740
gtgggatctg gggagagcgg ctggagaaa atgcagtcct caggaagggg gccgccaccc 1800
tccctatgc tggtagatgc tgaggccct aggtgccag ggccagtgg accctctcag 1860
aaccaaatct tcccccttc tcggggcttg gggctcgggc cgtangggct cctgagtgtc 1920
atgaagtgca caggagccaa atgaccgagc cctggagagc cccatggtgg gtaggtggtt 1980
cgtgctgtgc tctggcacca tcagcctgtt ccagaaggag gattcgagca tcaggctaag 2040
accctgtgtc ctccaccatg cactacccc tagccctgg tagctgacag tcagctgtgg 2100
ggaacacagc tacaacccta ccctggcagg gacctgagag catctcagga ggggcagcgc 2160
atgtgtgcat gtgctgtgtg agtgagcaca cccgtgtgca cactcataca catgtgcaca 2220
cacacgcact ctcccrctc aggggcctgg aggtctggct gagccctgg ggaaagggtga 2280
gttctttcat ctccctctc caggtcggag tgcctggagt caggtgtcga ggccacattg 2340
ctggctgccc cctctttgta gtcctataa agggcccaca cctggtggat acctggttga 2400
gcgtgtggtc tctgccccag cctgtccttg tcacgatcac aggccttgct tttgtaacaa 2460
tgatgacccc ggctgtctc atcttctgaa gaggaaggt caaagtgttg ctgtggctcc 2520
atatttcaac taaaaatata tctgttgagg aaagaaatta acaataaaga attttcatag 2580
gttaaaaaaa aaaaaaaaaa 2600
```

&lt;210&gt; 686

&lt;211&gt; 4641

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 686

cagcagcggg atggccctag cagtggcggc ggstgcagaa gccaagcag cgcgccgca 60  
gtggaggcta gagccggagc ggcggcggcg gcggcacccc ggggagttta agatggcggc 120  
gggggggaca gggggcctgc gggaggagca gcgctatggg ctgtcgtgcg gacggctggg 180  
gcaggacaac atcaccgtac tgcattgtgaa gctcaccgag acggcgatcc gggcgctcga 240  
gacttaccag agccacaaga atttaattcc ttttcgacct tcaatccagt tccaaggact 300  
ccacgggctt gtcaaaattc ccaaaaatga tcccctcaat gaagttcata actttaactt 360  
ttatttgtca aatgtgggca aagacaaccc tcagggcagc tttgactgca tccagcaaac 420  
attctccagc tctggagcct cccagctcaa ttgcctggga tttatacaag ataaaattac 480  
agtgtgtgca acaaacgact cgtatcagat gacacgagaa agaattgacct aggcagagga 540  
ggaatcccgc aaccgaagca caaaagtatt caaacccggg ggaccatatg tagggaaaag 600  
agtgcgaatt cggaagcac ctcaagctgt ttcagatata gttcctgaga ggaaaaggctc 660  
aaccctcatg aaccctgcaa atacaattcg aaagacacat agcagcagca ccattctctca 720  
gaggccatac agggacaggg tgattcactt actggccctg aaggcctaca agaaaccgga 780  
gctacttgct agactccaga aagatgggtg caatcaaaaa gacaagaact ccctgggagc 840  
aattctgcaa caggtagcca atctgaattc taaggacctc tcatatacct taaaggatta 900  
tgtttttaa gagcttcaaa gagactggcc tggatacagt gaaatagaca gacggctcatt 960  
ggagtcagtg ctctctagaa aactaaatcc gtctcagaat gctacaggca ccagcckttc 1020  
agaatctcct gtatgttcta gtagagatgc tgtatcttct cctcagaaac ggcttttggg 1080  
ttcagagttt attgatcctt taatgaataa aaaagcccga atatctcacc tgacgaacag 1140  
agtaccacca acactaaatg gtcattttgaa tcccaccagt gaaaaatckg ctgcaggcct 1200  
cccrctgccc cctgcggtcg ctgccatccc yaccctcca ccgctgcctt caacctatct 1260  
gcccattctca catctctctc agattgtaaa ttctaactcc aactccccta gcactccaga 1320  
aggccggggg actcaagacc tacctgttga cagttttagt caaaacgata gtatctatga 1380  
ggaccagcaa gacaaatata cctctaggac ttctctggaa accttacccc ctggttccgt 1440  
tctactaaag tgtccaaagc ctatggaaga aaaccattca atgtctcaca aaaagtccaa 1500  
aaagaagtct aaaaaacata aggaaaagga ccaataaaaa aagcacgaca ttgagactat 1560  
tgaggaaaag gaggaagatc ttaagagaga agaggaaatt gccaaagctaa atwactccag 1620  
tccmaattcc aktggaggag ttaaagagga ttgcaactgc tccatggaac cttcagcaat 1680  
tgaactccca gattatttga taaaatatat cgctatcgct tcctatgagc aacgccagaa 1740  
ttataaggat gacttcaatg cagagtatga tgagtacaga gctttgcatg ccaggatgga 1800  
gactgtagct agaagattta tcaaactaga tgcacaaaga aagcgccctt ctccaggctc 1860  
aaaagagtat cagaatgttc atgaagaagt cttacaagaa tatcagaaga taaagcagtc 1920  
tagtcccaat taccatgaag aaaaatacag atgtgaatat cttcataaca agctgggtca 1980  
catcaaaagg ctaataggtg aatttgacca acagcaagca gagtcatggg cctagaactc 2040  
tgcttgacc agaagatgtg aataaactta agcttattta tttaaaattc caaatgagtt 2100  
gctctagatt ctaaaaagg gaaactttgg ctggtgaaag tttcagtatt agtaaaacttg 2160  
agttactttt tcttttccat tttactttgc ttccctgcat ttcgaagctg ctctttctgg 2220  
tcctcccccac cccccaccc ccaagacttg tgtttggtta tagaaataat ttttttaggt 2280  
attggggatc cattgtctat atttcaaatc agtttttttt cctcaaaaac ttgtgtttgt 2340  
tattagaaat gatttttttag atattgggga tccagtgtcc acacttaaaa gttgtatgtg 2400  
tttaaaaaac aacaacagta atgtgcaagg tgaaatgctt ttggataaac gtaagcctat 2460  
tttctgacgt ttcttaatgc aaactctttg ccttaaatgg tagaatattt agaaatttgc 2520  
acaaaattaa aaaaataaac attgtcttgg agggttaaaa aatagaaagg tgtatgtgta 2580  
tagattcaca tacacatatg tatatacagg ctgacttgat ctagaacatt aaatccgccc 2640  
tgcaagttaa cccccattg caatgggtgc cttaagggtg ttgctagttg tgtacatagt 2700  
gtggttaatc attagctaca ctgcttccca cttgattaga gcaatgggaa gcatactgtg 2760  
gcctaccagc atctggaagt gtgtgctcga tctgtatgtg tgcagaggtg gtgtggatgt 2820  
gagcgtgcat gaaggaaaaa aagctgctac tcctagtagg ccaaagctc aggttaaaca 2880  
actgacgagt gttactgtag ggtgtttttt tgtttttttg ttttttttct tctatcaaat 2940

```

tgctactttt gttgtggaag acaaaagcat ttccatttca acgagtttgt cagcttttatt 3000
aatgttgggc aaaaattgat atgtcatgaa aatgaaacag atctatagtt ttgggacaaa 3060
attataaaat gaaatgtgta ggtaacctat ttatatactg ctataaaagta ttttttgaag 3120
agagatatgc aaagaagcta ttacctacat aagaggtata tttaaagatt ttttttttca 3180
tcctggtgcc aggaatataa aaaagagtgg atatatttta ccataacata ctgtgattca 3240
tcaaacagca caaactttca tttcatggag tttatctggt gacattgatt taaactgtca 3300
cttggttttat catgtgggaa cataagttat gtggtcaaaa atataaggat tttgaattaa 3360
tgttgattca agttgtattg tcttattgta ttgtcttttc aaagtgtctg cagttgaaaa 3420
gggaagcatt atgtttacaa atctgttttg aaatgtttgc caaaattttg gtagtgtctt 3480
taataaagat gtttgtctcc agcatccaga aaaataaatg aataactttg ttgtgtatca 3540
ctgtaaacca gaaaaatggt gggtatctag aaaacttgag agagcatgta gattaacttt 3600
tctcttttga gttctaaaaac attaaactgga aagattagat aatatactaa atgtatacag 3660
aagtatacag actatacaaa gactgaaaca agtccctttt gcactacaac tctataacat 3720
taccgcagaa attttggttc tatgtagcat ggacctccta aggaattctg tttcttttag 3780
cattgagatc cctggtgctc tttttttacc tcagaattgg tacaatcatt attaaacggt 3840
aatttatttc aaacttttta attgaaaaaa ggaaagggaa acttaattgg ggataaattc 3900
aggcatcata ttattatgat agagtctcct gagtggttcg tctataggta atgaactcat 3960
tggtgttatt tcttgacat cttggccttt taatcaaaga ctgtgtgctg ctatttgcta 4020
tgagcaaggt ttctcaaaag caaaaggtgc ttggaccatt tggatcacct gagttagaat 4080
ctctaggtat agggccarg tatctgcatt ttcacagggt tctttaggt gactttctgc 4140
aagctaaagt atgagaacca ttggccttga tgtagtctta aacttttagg tctgtaaatc 4200
ttgaaatcct gaactgaagg tcaactattg gctttttttt tttttttaat gtccatcatg 4260
tcagcaggtg caaatcactt ttcccctttg catgatctga ggcacctcct cagttgtttc 4320
actgccaact cttttttcag aacctgttta caaacaagcc ttccagttgg tgaatgggta 4380
gccattggag ctccctacct gtacatcagc acatcttctg gtttacaagt tgggtaacaa 4440
tgaaagctgg agatrctaaa tggaaatcca gcattgcata cccttagacc tgatcacata 4500
ccagtaaaag ccttaattta gatgttagtt gtatgtgwtg gacagatcct tgcaaaagtg 4560
tgctgtctat tagttgtaaa ttttgaaaat cataaatctc tgaatctgct actatccaag 4620
tttcatccct tttgaagact a

```

4641

&lt;210&gt; 687

&lt;211&gt; 400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (370)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (380)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 687

```

cggctccttgg gggggcctttg agctctccag actgtgcctt taccgccttc cccgccacac 60
cegtctgtgc ttcccactgt cccccccatc ccgggcaggg ccagtgaggg ttgagggggc 120
tgggtcccc aggacacggg ccagaaagag cccacagggt tcctgcatct tccamegcac 180
catacctgga gccctccgag ggggtgtcagg ggaaacaggc caccgccaaa gccatggccc 240
gccgccgaaa gcccaggccc caccgcacc tcctcaccca tccagcctga cccacgcggc 300

```

ctctctctct ccttgccgct gtktggggca rtccccctgtc cgccccaaaa ccggcttggt 360  
ccctggccan gcttgaaaaan aatttgggca aggaaaaaggc 400

<210> 688

<211> 2751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 688

accacgctg tccgccacgc gtaccgggtcc tacttcactt ttattggaag agttgctggt 60  
ctggccgcat ttcattggaa gctcttagat gggtttcttca ttagaccatt ttacaagatg 120  
atgttgaggaa agcagataac cctgaatgac atggaatctg tggatagtga atattacaac 180  
tctttgaaat ggatcctgga gaatgacct actgagctgg acctcatgtt ctgcatagac 240  
gaagaaaact ttggacagac atatcaagt gatttgaaag ccaatgggtc agaaataatg 300  
gtcacaaatg aaaacaaaag ggaatatatc gacttagtca tccagtggag atttgatgac 360  
aggggtccaga agcagatgaa cgccttcttg gagggattca cagaactact tcctattgat 420  
ttgattaaaa tttttgatga aaatgagctg gagttgctca tgtgcggcct cgggtgatgtg 480  
gatgtgaatg actggagaca gcattctatt tacaagaacg gctactgncc aaaccacccc 540  
gtcattcagt ggttctggaa ggctgtgcta ctcatggacg ccgaaaagcg tatccgggta 600  
ctgcagtttg tcacaggac atcgcgagta cctatgaatg gatttgccga actttatggt 660  
tccaatgggtc ctgagctgtt tacaatagag caatggggca gtcctgagaa actgccaga 720  
gctcacacat gctttaatcg ccttgactta cctccatatg aaacctttga agatttacga 780  
gagaaaactt tcattggccgt ggaaaatgct caaggatttg aaggggtgga ttaagcacc 840  
tgtgcctcgg ggggtggtgt tcttcaagca agttctgctt gcacttttgc atttgccata 900  
cagacttttg cagaggcgat ggcagagagc agctgcaggc atgggtccctg gagccgagcc 960  
ttcaccacgc actcgtccaa gtccggatgc gggaacctgg tcccagcttg agttcctgcc 1020  
tttcccacca caaattatca actggttgat gtgtacacta attacatttc aggaggactt 1080  
aatgctattt atgttggtgcc tctgcagcaa agcccttaat aaatatttta catcctttct 1140  
aatgacaatg aatggaatta atcactcaac aggtatagta ttacgactca tgtttacttt 1200  
ttaaataatg ttagaccgat tttcagattt tatttcgtta tgattaaaga tgtctcatgt 1260  
acttgaaaaa gtgagcattt tttttttttt tktatttca ctttcatacc aggttaatg 1320  
tcaatgacat ttttattttt gaagtactct gacacctcca ccctctactt tattagaatt 1380  
ggaaggcaaa tttttgtcca aaaacctaca gacaagtact ttgagagaat ttccaatata 1440  
atattagaca taatgataat tttttccata ctccagaatga aaaactggat attacgtttt 1500  
tkttttgggg tttttttgta caaatttagc taatagctac aggctgagag aattgtaaca 1560  
tagcatgaca aattttgtgt tgacttgaaa ggaatcacac cattattcct tagaagtaat 1620  
tacatgtgtt ctaacacatt tgagacaggg ttggactccc atttctcatc cgagaaatta 1680  
cttaaccttt cctgggcgct gtacagtcac cttttattct atttcctctt tgctgtttgt 1740  
agtagagaca ttttgaatga aacttggcac tgcttgattc aaaactgttg aaaccagatc 1800  
tgttttagtct cctgtttgta tgcgtttgct aatggtagct aaataaccag tttttgttgt 1860  
aaatgcacca attctgaagg cactttatgt actacatgga ggtcatatct ggtttgtttt 1920  
ttattttttt atcatgaaca ttaaattgta tgatgatttc ttttccctgc acacatcttt 1980  
ccggtgcaat atctatcaat tgtgaatctg gctgctggtg tataaaaacc tggatgtaaa 2040  
gctgagccta cagacctgtc ctccaaact gttttgtgat ttctactcaa ctacaaagat 2100  
ttatttaatg tactcttaat ctaactgagt tttgttacca atgacctgtt gcatgcttca 2160  
ataccgtgta ctgcctgagt tgtgcctctt gtgtgctaga ttaaaagtga gacagagact 2220

```
tgacttgatc ctctgagctc aagctattga gctggtagtg gcagaggact gagggtagct 2280
gcacagtttg attcttttcc acgtgtaagt ctccattgca gaattgtcgt gctttgagaa 2340
aacacctgag gcagtggtgg agttgaacga ccctgctgtc ctttttaacc tgtgttgacc 2400
tagamcctgt cggggcagtc aggggacact agagatttga tctcatgcga gtcataata 2460
ggacaaaaaa gttgtggttt ggggaggtct gtttgttaca taaaaaggac ctttcggtgt 2520
aagaaattgc cgtttttacc ctgccctggc tggcatgtga gaagccatgg aaggttgtgg 2580
ttgtaaatga gttgtctaaa ggggtgcaga ggcctgaggt ttctaaaaga aggtagattt 2640
ctacagagct gagtgttggt tcctttttct tattggttga aaattacctg gtagtgatca 2700
gaaaacttag atgctatgta actaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2751
```

<210> 689

<211> 969

<212> DNA

<213> Homo sapiens

<400> 689

```
caggcgagct cggcggtcgg crtgggggggc gctatgcggg gcggcacgtt tctcgagtcc 60
gggcattgta caagcgctc ttgcagctgc accgtgttct gccccggac ctcaaattccc 120
tgggcgacca gtacgtgaaa gacgaattta ggagacataa gaccgttggt tctgacgagg 180
cacagcgttt cttgcaagaa tgggaggtgt atgcaacagc gttattgcaa caggctaacg 240
aaaacagaca aaattcaact ggaaaagcat gttttggcac cttcctccca gaagaaaaac 300
ttaatgactt tcgtgatgaa caaattggac agttgcagga gctgatgcaa gaagccacaa 360
aacccaatag gcaatttagt atttctgagt ctatgaaacc aaaatttttag tctatacaac 420
aaagcttaat aagacatgca aaaatttaga acccctactt taactgtcat tggtttttga 480
aatatattta agctttgaaa acacctgtta ttaatgaaat actcttttat tttggatatt 540
atgattgcag tatatggatc aagatcacta gtgacaattg aaaaaacta ttggaataat 600
agcacttgta taaaattcag ttttggaact aaacagcaaa tttctagaat tttgctgaaa 660
atgtttttaa atgctattct catccagcca tattagtctt ctggcttttc tttagcttca 720
tcaaataagc atgttgtgat aatgatagat gtacaattcc aacaaggtta ttatttttta 780
aatacattgt cattytgaac attttatcac ttctagttta ataatacata catgattttt 840
cttctgaatg tctcttctcc ctgcatcact gttcattcac aatgaaagg taggaagaag 900
ctttaaaatt cactatttta ctatcaatca tttgtataat aaactataca aagtataaaa 960
aaaaaaaaa 969
```

<210> 690

<211> 979

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (943)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (945)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (957)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<400> 690

```
tgtgcctgcg ttcgggaagg gcagactgtg taccagcaag tcctgtccct gggagcgccc 60
aagtgtcctc cgcagctgga actggggcct gtgtgggtac tttgctttct accatgccct 120
ctatccccga gcctggactg tctatcagct tcctggccag aatgtcacc tcacctgccg 180
tcagatcaca cccatcttgc cccatgacta ccaggacagc agcctgcctg taggagtctt 240
tgtgtgggat gtggaaaatg aaggggacga agctctagat gtgtccatca tgttctccat 300
gcggaatgga ctgggtggtg gagacgatgc cccagggggt ttgtggaatg agcccttctg 360
tctggagcgt agsgnggaa actgtccggg ggctgtcctt gcatcatcca acccttccaa 420
acccctacac gatggctgtg gctgcacgag tcacggcagc taccacggtg acccacatca 480
cagcctttga ccctgacagc acggggcagc aggtgtggca ggatctactt caggatggac 540
agctggactc tcccactggc caaagcacc ctacgcagaa aggagtaggc attgctggag 600
ctgtgtgtgt ttccagcaag ttgcgacctc gaggccagt cgcctggag ttttactgg 660
cttgggacat gcccgagatc atgtttggag ctaaaggcca agtccactac aggcgggata 720
caaggttctt tggccaggat ggagatgcag cacctgccct cagccactat gactgtgcc 780
gatacgcaga gtgggaagag aggatctcag cttggcagag cccgggtattg gatgacagat 840
cactgcctgc ctggtacaaa tytgcgctgt tcaatgaact atacttcttg gctgatggag 900
gcacagtgtg gctggaagtt cttgaggaca tccaggataa agntntcttc tatcctnanc 960
ggggccaana agcctatga                                     979
```

<210> 691

<211> 693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 691

```
cgtggggccc ccggttgccg cccctngga aaaaggcatt gctggctctg aagaagcaaa 60
gtagcagcag cacaaccagc caaggtggtg tcaaacgctc actatcagag cagcctgtca 120
tggacacagc cacagcaaca gagcaggcaa agcagctggt gaagtcagga gccatcagt 180
```

ccatcaaggc tgagaccaag aactcaggct tcaagcgctt tcgaaccctt gaggggaagt 240  
taaaggaccc cgagaaggga ccagtcccca ctttccagcc gttccagagg agcatatctg 300  
ctgatgatga cctgcaagag tcatccagac gtccccagag gaaatctctg tatgrgagct 360  
ccctcgctgt ccagaacagc cctaagggtt gccaccggga caagaggacc cagattgtct 420  
acagtgatga cgtctacaag gaaaaccttg tggatggctt ctagggaaca gagctggatt 480  
ccttgtgcct catatgcccc aatgctgggtc tcagtaaaac actgaggtgg aagcttacac 540  
atctccctca gcctctgggt tttcagcact tgggattggg gttaaacctt taaaaacggc 600  
tgctcaggttt gatctcagt taacaacatg gccagtgcct gttccccact cccttgcccc 660  
aaaaggattt ggaacccaaa aaaaaaaaaa aaa 693

<210> 692

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 692

gccactcgc tgcggcgctt ctggctccag accgcccctc ggatcggacc ctgcgaatgg 60  
ttttggctat atcttcatgc tgggttcat caccaggcct cctcacagat tcctgtccct 120  
tctgtgtcct ggactccgga tacctcaact ctcagtactt tgtgtcagc ccaggccccag 180  
agccatggct atctcctctt cctcctgcga actgcccctg gtggctgtgt gccaggtaac 240  
atcgacgcca gacaagcaac agaactttaa aacatgtgct gagctggttc gagaggctgc 300  
cagactgggt gcctgcctgg ctttccctgcc tgaggcattt gacttcattg cacgggaccc 360  
tgcaagacg ctacacctgt ctgaaccact ggggtggaaa cttttggaag aatacaccca 420  
gcttgccagg gaatgtggac tctggctgtc cttgggtggg ttccatgagc gtggccaaga 480  
ctgggagcag actcagaaaa tctacaattg tcacgtgctg ctgaacagca aaggggcagt 540  
agtggccact tacaggaaga cacatctgtg tgacgtagag attccagggc aggggctatg 600  
tgtgaaagca actctaccat gcctgggccc agtcttgagt cacctgtcag cacaccagca 660  
ggcaagattg gtctagctgt ctgctatgac atgcgggttc ctgaactctc tctggcattg 720  
gctcaagctg gagcagagat acttacctat ccttcagctt ttggatccat tacaggccca 780  
gccactggg aggtgttgct gcgggcccgt gctatcgaaa cccagtgcta tgtagtggca 840  
gcagcacagt gtggacgcca ccatgagaag agagcaagtt atggccacag catggtggta 900  
gaccctggg gaacagtggg ggcccgtgc tctgaggggc caggcctctg ccttgccccga 960  
atagacctca actatctgag acagttgcgc cgacacctgc ctgtgttcca gcaccgcagg 1020  
cctgacctct atggcaatct gggtcaccca ctgtcttaag acttgacttc tgtgagttta 1080  
gacctgcccc tcccaccccc accctgccac tatgagctag tgctcatgtg acttgagggc 1140  
aggatccagg cacagctccc ctcaattgga gaaccttgac tctcttgatg gaacacagat 1200  
gggctgcttg ggaaagaaac tttcacctga gcttcacctg aggtcagact gcagtttcag 1260  
aaagggtgaa ttttatatag tcattgttta tttcatggaa actgaagttc tgctgagggc 1320  
tgagcagcac tggcattgaa aatatataa atcataaaaa aaaaaaaaaa aaaaaaaaaa 1380  
aa 1382

<210> 693

<211> 3098

<212> DNA

<213> Homo sapiens

<400> 693

caaataggca aaataacact ttatcattat cattggctcat atacctagtg catttgtcta 60  
tgatatgttt ttgagtatat gacactgaaa tattagtgtg tctatgatac taaatcattt 120  
ttatatggct aaaatcatct tcagtaagaa ctctcttagg atatgaattt aagtgaaaat 180  
ttactgtctt ttttttaaaa catgatgaaa cagtaatcta tagagcaatt tcattagtat 240



atgtgagtaa tgatggttta gttaaactcta caggctgggt aagggctcat aagaaagctt 300  
ctaaagctct gtgctttgtg ttctctctgtg aatgtccatt ctacttctct ttctaataat 360  
gcatgctttt cttttttgtaa acaaaatgtt gacttcatgg atcaattaaa gagaattgta 420  
aaaacctaata ttggcttcag ttaacagtta aaaaaaaccc cttcaattgg aagaaaaaaa 480  
aatttaattc atagatttca atccacacaa aatcatgtcg tcttctctgt ttacacctaa 540  
tgrctaacct taatctctaa accattaatg ggggtgattct aatttctgtc ttcttttccct 600  
ttttcttccct gcatcccatg ttgtctgtgg tggtttgtgt ggttggactc tcccctggctc 660  
agtattttta tttccaggag gtgttccctg tcttggctgc aaagcactgt atcatgcagg 720  
ccaatgctga gtaccatcag tctatcctgg caaaacagca gaagaaattt ggagaagaaa 780  
ttgcaagggt acagcatgca gcagaactga ttaaaacagt ggcactctgc tatgatgaat 840  
atgttaatgt gaaggatttt tctgacaaaa tcaatcgtgc ccttgcctga gcaaagaagg 900  
ataatgactt catttatcat gatcgagttc cagaccttaa agatctagat cctattggca 960  
aagccacact tgtgaaatct acccgggtca atgtacccat cagtcagaaa ttactgatc 1020  
tgtttgagaa gatggttccc gtgtcagtac agcagtcttt ggctgcctat aatcagagga 1080  
aagccgattt ggtaacaga tcaattgctc agatgagaga agccaccact ttggcaaatg 1140  
gggtgctagc ttcccttaat cttccagcag caattgaaga tgtgtctgga gacactgtac 1200  
ctcagtctat attgactaaa tccagatctg tgattgaaca gggaggcatc cagactgttg 1260  
atcagttgat taaagaactg cctgaattac tgcaacgaaa tagagaaatc ctagatgagt 1320  
cattaagggt gttggatgaa gaagaagcaa ccgataatga ttaagagca aaatttaagg 1380  
aacgttggca aaggacacca tccaatgaac tgtataagcc ttaagagca gagggaacca 1440  
acttcagaac agtttttagat aaagctgtgc aggcagatgg acaagtgaag gaatgttacc 1500  
agtctcatcg tgacaccatc gtgcttttgt gtaagccaga gcctgagctg aatgctgcca 1560  
tcccctctgc taatccagca aagaccatgc agggcagtgga ggttgtaaat gtcttaaaat 1620  
ccttattgtc aaatcttgat gaagtaaaga aggaaagaga gggctctggag aatgacttga 1680  
aatctgtgaa ttttgacatg acaagcaagt ttttgacagc cctggctcaa gatgggtgtga 1740  
taaatgaaga agctctttct gttactgaac tagatcgagt ctatggaggt cttacaacta 1800  
aagtccaaga atctctaaag aaacaggagg gacttcttaa aaatattcag gtctcacatc 1860  
aggaattttc aaaaatgaaa caatctaata atgaagctaa cttaagagaa gaagttttga 1920  
agaatttagc tactgcatat gacaactttg ttgaacttgt agctaatttg aaggaaggca 1980  
caaagtttta caatgagttg actgaaatcc tggctcagggt ccagaacaaa tgcagtgata 2040  
tagtttttgc acggaagaca gaaagagatg aactcttaaa ggacttgcaa caaagcattg 2100  
ccagagaacc tagtgctcct tcaattccta cacctgcgta tcagtcctca ccagcaggag 2160  
gacatgcacc aactcctcca actccagcgc caagaaccat gccgcctact aagccccagc 2220  
ccccagccag gcctccacca cctgtgcttc cagcaaactg agctccttct gctactgctc 2280  
catctccagt gggggctggg actgctgcgc cagctccatc acaaacgcct ggctcagctc 2340  
ctcctccaca ggcgagggga ccacctatc ccacctatcc aggatatcct gggatttgcc 2400  
aaatgcccac gcccatgggc tataatcctt atgcgtatgg ccagtataat atgccatatc 2460  
caccagtgtg tcaccagagt cctggacagg ctccataccc gggacccag cagccttcat 2520  
acccttccc tcagccccc cagcagctct actatccaca gcagtaatat gtctgctcag 2580  
cagctcagct gattcagatc agagggaaag aaataccaac cctgcaataa gtgtactaaa 2640  
ctctacgctc tggttaatgt aatgtactct cctggactga atgcagtgtg taatttctgt 2700  
ctacagctag aagctgtgcc ccagttccac atttgattac acatgtgaga tttgctgctg 2760  
ttgcagtata aacactagggt ataataggat ttgaaattgc attacagttc ataaaaattg 2820  
aaaatgagaa attaaacctg caagtgaac atttgaaacg attatacttt ctacataaga 2880  
catggttggg acatcagata cttacaaaga tggtttaagt atggatacta gagaaaatta 2940  
agttttcttt ctctttgggt tattgatttg gtttaatttc cattatgcta ttttgcataa 3000  
tcaaggcact gtaaatctta taattttaaa ataaattact taagaacaaa aaaaaaaa 3060  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 3098

&lt;210&gt; 694

&lt;211&gt; 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 694

```
gaaagtctac ccgcctcctt gtgacagaag tgcgactgcc agctgccgag gcgttcgggtc 60
ctgtgtttgc ggccgctgcc ccagggtgc ggggacgctc ccggagccct gcctgttccc 120
tgtccatcca ggccagcagc tgaaggagcc tcacctgcct cccttctctg agtagcacgg 180
atttraggag aagcagcgaa gatgtccagc gagcctcccc ctccttatec tgggggcccc 240
acagccccac ttctggaaga gaaaagtgga gccccgcccc ccccaggccg ttcttcccc 300
gctgtgatgc agccccctcc aggcattgcca ctgccccctg cggacattgg cccccaccc 360
tatgagccgc cgggtcamcc aatgccccag cctgggttya tcccaccama catgagtnca 420
gatgggmact acatgcctcc gggtttttta cccttcttca ggggccccca cccacccttg 480
gggtaatta                                     489
```

<210> 695

<211> 1844

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 695

```
gccactaagc tgnentgcgc gcgcctgcag gtcgacacta gtggatccar agacaaaatg 60
gaaattttaa tgacatccta gaggtagaga aaccgtggag atcgcttttc tcagactcac 120
caacttttaa tgggatttca tgggggttgg ttgtgctgat agggtaaggg gaggctgctt 180
tctgcccttc tccccactcc catctgattt acttaattca gtctcagctg ctgaaatttg 240
gaaaggacca aattgcttta cagttttttt ctttgtgtag tatcttgaaa tcctggaaaa 300
ttctatggaa tagttctgta tatagggcac aagtaaaggc attgtccaaa gtttatttat 360
ttatttatta ccctaagaat gctttgccat aaccacattt aatgggaaaa acggcagtat 420
cacagatgta aattaactca ccagatttac tgggcctgaa ctcatctctt tcttgctata 480
tgatttagca agttctagaa ggtctccaag acaataatta cattggcaca atgtatactt 540
cagtgtcac ccgtaggcaa atctcttttt aaaaaactct ttgggtgcaca agtaacacat 600
ttggccacaa aacaccaaag aattgtaggc agtggccctt attgagaagt tttccggtag 660
agttggaaat cagttgtgaa tacattcttt gctagttgga gtgcttggtt actaagcatg 720
tgccgtcgta ggtattagtg ctagtctcaa ataggtgctt cccctgaggt gcaggggaaag 780
accaaagttt gcaactcgaa ctgctttcgt ccatgtttct cacattgctg tatttttagaa 840
aataggggtt aagactgata acaacctttt acattgtgac tgtgtttgca ttgtctaata 900
acagataaat ccttaacatt tctctccacc ttagtacttt agactaattg tgtttgtccc 960
```

```
tccatgccat gaatgagtgg gctgtagttg ggcctaaata aatgagctgt tggaagaaaa 1020
gaatcacagt actttccagc agtcagtcctc tggttcctag atgtgttcta agcaatgcaa 1080
atgtctaatt gtcccccagt gggcatagtc agtgctgctt atattgtagc agttacagct 1140
ctgtagttta tgatgcaaata ctgccaaagag agatgtatgt gtcactgcat ggcttctgaa 1200
agcaggatga attttctgca gctgtttcaa agttgggggc tgttcttgaa tcctctatta 1260
attactgtgt gtgagccaga gggagctgtg gtaagggttg ggcccccagc ctgtagggaa 1320
ctttctggac tcccactctt tgaatcgata taggcatttg gtctcactac ttgaccattc 1380
tcacctgtg aaacgtccca cactttgaag caaatacaat tcacagcaca gtacacacaa 1440
aaaccttggc ataagacaga gaagggttctt cttattttgt gggtggttg ctgtagaaac 1500
acataacaaa gggcagccct ccacttctgg tataattgtg tagccccctt tctttgggct 1560
tgacacctgt cttgaataag agtgattaga gctgcataat gtccctctct tggctattga 1620
ccatgtggtt cacgtacaaa actctgtata agttgaagga aaatgttcat gttcatatgt 1680
actgttttgc tatgactaca ttttgagggt ttgtaaaact gttatttttt tttttttcac 1740
aatgtgaaac tgaagggtcaa taaattatta gagattttct cttcaaaaaa aaaaaaaaaa 1800
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gggg 1844
```

<210> 696

<211> 605

<212> DNA

<213> Homo sapiens

<400> 696

```
cctgcactac tctgtcaaat taaaaaatat aatagctatc tttattctca ttttaaagca 60
tgataatcat caaaatgttg aagtttatca cagttctaca ttaaaaataa gtcatttttg 120
taggtgagtt atccaatata gcaaaggcca tcaaagagaa agccaatact ttcattggaga 180
gctcagagcc ttaatagatc ccagcagcaa tgcttcaacc attcccaact ccatgttcct 240
tgctagatgc tcctcaccct aaactcctgc aaatttcaag aatttctgtg tatgwtgtg 300
ttaaggaggg agttttaaag tatctctgta ttcaacaaga tacgtcagct tgtaagcagc 360
agaaacctac ttaaaactak ttacatgaga aaataacatt ataaagacat aggagtgttt 420
ctacaccaag agctggagggt attgtttggt ttcatgaagg gttaaaatct gtaattccaa 480
aagtaggact tcaggcagct gcaccatcaa tctgtgtctt tctctcwggg actgtgggac 540
tctatwcccg tctgacttgc tttggttccc ggggcacatc tcttggtctt gggaaaacac 600
acttt 605
```

<210> 697

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<400> 697

```
agggcacact agggacctac cgtacaacac ttcagcattg ttaagcactt aaccatttga 60
aaaaacttaa tgaaatgatt aatttttttt ttaattttac tgaaggatgt atnnatagat 120
ttagggagga tatgagggtg actaaaaagt taaatttttc taatgtgaac ttttatttat 180
gttggcttgt atcttacaat ttgtaatttt aaagtcatgt taggccaatg raatgtgagc 240
gcctcaagaa tagctattaa gtatcatact aaatttggcg gacgtacaga tctgtgttac 300
aaagaaatgg aaaagtcatc cctgtgtcac ggggatgaaa agcctgctag ccattccaat 360
tgactgagra catcttgcaa agaaccacc ttacttctgc cggtagagcc ttgggcaa 420
taaagtcatg tcaaataaat ttagtagtaa gttcccttwt acmaatagtt atgtgtccac 480
acacgtgnng aatgttttat gggaactaat ggaagcgagc aaatcccaga aggntctctg 540
```

<210> 698

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<400> 698

```
ggcagagggg agactcagct gatactgctt ccttgagatt taatacacct tcctttgatc 60
tctcctgtcc ccattatccc aggaaaatcc agagtagctt ccagtccatt ctcatatc 120
cactggatcc aaagtttaga gaggttcccc ttccctccag cctccttcct ggcccaacag 180
aggagcacc caccaccctc catcagctgc tcaaaaccca caagggaaaa atccctacag 240
gtccatgcc ggaggtagt gagctaccct ncagggtcca ttaagtcata ccagaaggct 300
gagtgtagaa atgaacatta agaggggttc catctgtagg gaaaggggtc aagatgcaaa 360
gctttacaga aggttctccg tctaattgtg aagattaaga gcactgggtg acctaggaa 420
atgaagaatg gagagtgggg aaaccagcag agattttcag gaatgtttta gggggcnttt 480
tcacgttttc aaagca 496
```

<210> 699

<211> 987  
<212> DNA  
<213> Homo sapiens

<400> 699

```
ggcacgagct caactgcaag gacgctgtaa gcaggaagag aagccacagc gcttcagaaa 60
agagtgggac agggacaagc atatctaaga ggctgaacat gaatccacag atcagaaacc 120
cgatgaaggc aatgtatcca ggcacattct acttccaatt taaaaaccta tgggaagcca 180
acgacgggaa cgaaacttgg ctgtgcttca ccgtggaagg tataaagcgc cgctcagttg 240
tctcctggaa gacgggcgtc ttccgaaacc aggtggattc tgagacccat tgcatgcag 300
aaaggtgctt cctctcttgg ttctgcgacg acatactgtc tcctaacaca aagtaccagg 360
tcacctggta cacatcttgg agcccttgcc cagactgtgc aggggaggtg gccgagttcc 420
tggccaggca cagcaacgtg aatctcacca tcttcaccgc ccgcctctac tacttccagt 480
atccatgtta ccaggagggg ctccgcagcc tgagtcagga aggggtcgct gtggagatca 540
tggaactatga agattttaaa tattgttggg aaaactttgt gtacaatgat aatgagccat 600
tcaagccttg gaagggatta aaaaccaact ttcgacttct gaaaagaagg ctacgggaga 660
gtctccagtg aggggtctcc ctgggcctca tgggtctgtct cctctagcct cctgctcatg 720
ctgcacgggc ctccctcca ccctggacce gctctgtttc tgccctggta tccctgagccc 780
ctcctggcct cagggccatt ccacagtgtc cccctgcctc accgcttctt cctcgtctct 840
ccagactctt cctgcagagg ctcccttctg cctccatggc tatccatcca ccccccacaga 900
ccccgttcct ccagcctgcg tgcccctaac ctggcttttc ccatctcccc agcataacca 960
aatcttacta aactcawsct agtgaggg                                     987
```

<210> 700  
<211> 1675  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1616)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1635)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1659)  
<223> n equals a,t,g, or c

<400> 700

```
tggattaaag cgggtaagtg ctacagctgc ccacagaaat gctttacaga atcctaaaca 60
gggaggcacc cagttgaaaa cagaaaaaat acatatgttt ttgttagctc cmgtggcaac 120
agggatcaac agtcacaatg atagaggaag gggcattcaa ggaaccatta atgagcaatg 180
tgccctctct ctcaaaatca gggcaagcca tggcaccaag atgatgactc cagaggtgct 240
ggcagaggca tatggcaaga aagagtggaa gcacttcttg tcggacactg gaatggcttg 300
ccgctcagga aagtattact tttagacaa ctactttgac ctgccaggag ctcttctgtg 360
tgccagggtg gtggactatt taacaaaact gaacaatggt caaaaaacat ttgatttttg 420
```

gaaggatata gttgctgcta tacaacacaa ttataaaatg tcagctttta aggaaaactg 480  
tggaatatat tttccagaaa taaaaagaga tccaggcaga tatttacata gttgtcctga 540  
atctgtgaaa aaatggcttc gacagctaaa gaatgctggg aaaattcttc tgttaattac 600  
cagttctcac agtgattact gtagacttct ctgcgaatat attcttggga atgattttac 660  
agaccttttt gacattgtga ttacaaatgc attgaagcct ggtttcttct cccacttacc 720  
aagtcagaga cctttccgga cactcgagaa tgatgaggag caggaggcac tgccatctct 780  
ggataaacct ggctggtact cccaaggga cgctgtccac ctctatgaac ttctgaagaa 840  
aatgactggc aaacctgaac ccaaggttgt ttattttggg gacagcatgc attcagatat 900  
tttcccagct cgctactata gtaattggga gacagtcctc atcctggaag aactcagagg 960  
ggatgaaggc acgaggagtc agaggcctga ggagtcagag cctctagaga agaaaggaaa 1020  
atatgaggga ccaaaagcaa aacctttaaa tacttcatct aaaaaatggg gctctttttt 1080  
tattgattca gttttgggac tggaaaatac agaagactcc ttggtttata catgggtcttg 1140  
taagagaatc agtacttaca gcaactattgc aattccaagt attgaagcaa tcgcagaatt 1200  
acctctggac taaaaattta caagattctc ttcaagcaat tcaaaaacag ctggctacta 1260  
tccaaatcct ccactggtct tatcaagtga tgagacactg atatccaaat aagttgtctt 1320  
tactgaaaaa tgaagtgaag acccatatat gcagttaaaa aaaagttaat tttcaaaaaa 1380  
tactgtaaaa gactttaagg aacaagtttt attgaccaat aagttgatat ttgtccatag 1440  
gtctcctttc tataaatcat cttgatgttt aacaactctt attatattaa aatctcagta 1500  
tcctaaaact taggaacctt attggatatt ttctattaca gtagttttgt ggttgggatt 1560  
caccgggggg ggccacacac tcacacggca cagttcactc tttacacata tggccncggg 1620  
cccgtggggg tctcnaagggt gtggttcctt tggggcctnt tgggcttggg ccttt 1675

<210> 701

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 701

ttaaccccac agtctacttt tttttctggt gcagacctta agacaatgta gtaatacgtc 60  
ttttacccat ccccaaata acagtgtaca cagtgtgttt tttcccctta gtggagttag 120  
cagtatgtta gtgaggttag gtgagcatct agatttggtc cacagaaaag ggtgtttcca 180  
gccagtatca gtgatgttggt tacttctcca acagtctaaa tctaagggtt ttaggagcct 240  
gttygattaa gtgataagaa gataccctcg tctggtgttt ctttcagtgc tgcctcttca 300  
tcttttagca gaaggcacia atgcctttta tttgctccgt ggtgaaaagc ttccagttct 360  
caataggcac aggatgtcag tggccacagt tgggtgtaagc ctgttcagag tcttctaatt 420  
tgaaactgta gtggtgttta gtttataaag ctanaagaag aatctgtgga gggctctggaa 480

ttgtatttgt gtggtgaaat tngtnacttt tagatgagga aagaaaacct ttgcttttgc 540  
ccaaaacctg tgccag 556

<210> 702

<211> 1138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1074)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1096)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1138)

<223> n equals a,t,g, or c

<400> 702

gccaaagcga gaatggggac ttagttcctg tcccctgagc ttcagagaac aaaaaaacct 60  
gaggcctcca gtggttttct gtggtcctcc agtgaggctg tcagccctc agtcctcagc 120  
cacttcctgg gctggggacc tcacagtctt ctgttcctgc cttgaggccg ggcaaacgca 180  
gcaccaactg ctccccacag gtgcacagcg tgggtgctgtc agagcgggac ctgcagcggg 240  
agatcaaggc ccagctggcc cagctgcccg attccgcgcc gggacccccg ccccgggccac 300  
aggctccgcct cgcgggggccc caagccatct ttgaggccca gcagctggca ggagtgcgac 360  
gaggcgccaa gcctgagggtg cctcggattg tgggtgcagcc cccggaggag cccagaccac 420  
cgcggcgga accccagacc cgcggcaaga ctttccatgg gctcctgact cgggcccggg 480  
gcccccccat cgagggggccc cccaggcccc aacgaggtc cacctccttc ctggacaccc 540  
gcttctgaga ggaccatgga cttagtgtcc cccagtctca attgcctgat ggctgatgcc 600  
agcccgga ataggcaccg cactttactc ttgggactcg gggacttggc ttccttcctg 660  
gcaaggacca ggcagtgggg aaggaggagg tcctccgtgg tacatactgg gtcaggcact 720  
agcatggagg agggtcacag agtggggcac gtgaggacct atggaaccgt cctggtgccc 780  
aggccctcac aagtaccaa gccagcacca aaggagtcat ggaaggggtt ggctgagtca 840  
agggacccca gagggcacca ggaataaaat cttcttgaac agaaaaaaaa aaaaaaagg 900  
gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcgacgtcat agctcttcta 960  
tagtgtcacc taaattcaat tcaactggccg tcgttttaca acgtcgtgac tgggaaaacc 1020  
ctggcggttac ccaacttaat cgccttgacg cacatcccc tttcgccagc tggnttaata 1080  
gcgaagaggc ccgcancggt tcgccctttc cccacaattg cgccttgga tgggcgan 1138

<210> 703

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1044)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1061)  
<223> n equals a,t,g, or c

<400> 703  
cactgtgtgg agggcacctc tctgtccctt ccgtgtctca ctgtctctgg aagcttcagc 60  
ccatgtgtgt cctgggtgttc ccagcccccac cagagcccgt gccgggagct gacagctttc 120  
acgcttaagg cacgtgtgac ctgggtagtc agacaccact tgagcccctg cccacatctg 180  
ctggtttggg gcttcagtgg ggagctgaca gctgtgagca caccactgtc ccctcatcca 240  
cctcggcctg catggggcac ccacttcctt ctgggtgggg ctcccatggt aagggggcct 300  
gcgtccctgc aactgcgag gactgccttg cacaggccca ctccctacga cacgtgactc 360  
gttttagagc tctgtcccag aggcgttcgt atgtgaccca cagatggcgt caatgtgaac 420  
acctctcttt gtgctgaatt tctgggccat tcttttctctg tcttatttct aaatttcctt 480  
cttccaagat gaaaacaaaa gaaaaactta aaacagaagg tattaataaaa acaagagatt 540  
cccaccatta tttaggttca cctgcaraac aaaaatctta ctccarcccc tcaatgccat 600  
cctgacacac tttatgcaaa aagaattttc ccagataggc tagccagaaa aaacttcaag 660  
tcctctgtaa catctgaggt gaccaagagg cagaagagca gagcagtcgg gggccgtgtc 720  
ctggctgac ccaactgcag ctctgctgtg gggggccgtg ggagggaggc agacccttg 780  
gctttcctgc tggccacgga gactctgctc ctgcatggaa agggagcctg ggagccagca 840  
gcccacgcct ggggagcctg cctggggcca tgtgaccatg gcctctccct gggaacgggc 900  
tgaccacaac acaccctgct gccatccact tctgtttact ctgcaaattgt aagaaagaac 960  
cacttgacca gaagtgtccc ccagatgstt tttttttttt tttttgggag acagttttgc 1020  
yyttgyttcc cgytgaggat gcantggcat ggatctaact nt 1062

<210> 704  
<211> 865  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (685)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (831)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (847)  
<223> n equals a,t,g, or c

<400> 704  
gagagaacta gtctcgagtt tgtttctctt atatgcccac cattttttca tatatatatg 60  
atttgatttt atatacacat atgtatacat attatatata aatatatatg tgtatacata 120



tatgtgtgta tatctatgaa tcaaacatac tgtttctggt ggagatgggt cagaattata 180  
aagattatct gaatctttat ctgtgagcag tctccaagka agaagttgmr aggtgaagcc 240  
tttgactgct gtcattgtctg aggtcattcc aaggacatgg gagactgctg tccatgggtg 300  
gatcctctta acatcagcag agttctgtca agttacttag ctttactggt ggcagctcta 360  
gcattccatt aattcaaaat gktgtcctta atataagcct ctamcattta aaataaaaaat 420  
tttaaagtga tccattaagg gaataattac atattgaatt cctaagaaat aagaattatt 480  
tgggtggttt tttctagata gaataaacac aagagctgga ctatattaac tgttgtatac 540  
acttttttaa ctggcatttt yagttacttg tgatttttcc aggaaaaata aaaatgaatt 600  
aaagtggaac agtggacttc taattggttt tgtcttttga ttacatttga ccatcaacaa 660  
tgatgtaagc cttggataga atgtngcccc tcagtgtccc acttaaatct cttggtaaac 720  
ctttggtgta tacacttcat tgtgcttttt ggaatgactc taaaagccca taaactaatg 780  
ctttgcaaag cctaaataaa aatggttgca gcctgtatta ggaaccactt nccttttatg 840  
gtcctgnatg taaatagggg gtttt 865

<210> 705

<211> 1383

<212> DNA

<213> Homo sapiens

<400> 705

gctgtggagc ggctgccggc gtttcggggc ggcctcggc tgctgtccc ggggtctccg 60  
ggctcctgct cagaccggcc accggagctt gacctcctgc atcgaccctt ccatgggact 120  
taatgaagag cagaaagaat ttcaaaaagt ggcctttgac tttgctgccc gagagatggc 180  
tccaaatatg gcagagwggg accagaagca tgtgtgcctg gatgattgat agcttcggaa 240  
atgaggaaca gaggcacaaa ttttgcccac cgctctgtac catggagaag tttgcttcct 300  
actgcctcac tgaaccagga agtgggagtg atgctgccts tcttctgacc tccgctaaga 360  
aacagggaga tcattacatc ctcaatggct ccaaggcctt catcagtggg gctgggtgag 420  
cagacatcta tgtggtcatg tgccgaacag gaggaccagg cccaagggc atctcatgca 480  
tagttgttga gaaggggacc cctggcctca gctttggcaa gaaggagaaa aaggtgggg 540  
ggaactccca gccaacacga gctgtgatct tcgaagactg tgctgtccct gtggccaaca 600  
gaattgggag cgaggggagc ggcttcctca ttgccgtgag aggactgaac ggagggagga 660  
tcaatatgtc ttctgtctcc ctgggggctg cccacgcctc tgtcatcctc acccgagacc 720  
acctcaatgt ccggaagcag tttggagagc ctctggccag taaccagtac ttgcaattca 780  
cactggctga tatggcaaca aggtggtgg ccgcgcggct gatggtccgc aatgcagcag 840  
tggctctgca ggaggagagg aaggatgcag tggccttggt ctccatggcc aagctctttg 900  
ctacagatga atgctttgcc atctgcaacc aggccttgca gatgcacggg ggctacggct 960  
acctgaagga ttacgtgtgt cagcagtacg tgccgggactc cagggtccac cagattctag 1020  
aagagctggt ctggcagggg cctggagtc agagccgcag ctctgctctt ttcggggggc 1080  
ctcagattcc tctgctgctg cccttttccct ctggagatct gcgagaaggg tgaactgaga 1140  
taatggatga gaaagcatgt tgaaaaccac agccggggct tttctctaag gttatcgagt 1200  
acgtggttct cagggatcca agaacagtga tggacaaggc aaatgtgagc cagtatggct 1260  
atcagtagct ctatattgat tatcagccag atggcctaaa agatacctgt ctcaatatta 1320  
ctagtgtatt tttcaataaa ataaaccatc actaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380  
aaa 1383

<210> 706

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 706

```
ggcagagtga ttattttaat gtaaccttgc taaagnagtg atttctatatt cctttcttaa 60
agaggaggaa caagaagatg aggaagaaat cgatgttggt tctgtggaaa agaggcaggc 120
tcctggcaaa aggtcagagt ctggatcacc ttctgctgga ggccacagca aacctcctca 180
cagccactg gtcctcaaga ggtgccacgt ctccacacat cagcacaact acgcagcgcc 240
tcctccact cggaaggact atcctgctgc caagaggggc aagttggaca gtgtcagagt 300
cctgagacag atcagcaaca accgaaaatg caccagcccc aggtcctcgg acaccgagga 360
gaatgtcaag aggcgaacac acaacgtctt ggagcgccag aggaggaacg agctaaaacg 420
gagctttttt gccctgctg accagatccc ggagttggaa aacaatgaaa agggccccc 480
ggtagtattc cttaaaaaag ccacagcata catcctgtcc gtccaagcag aggagcaaaa 540
gtcattttct gaagaggact tgttgcgaa acgacgagaa cagttgaaac acaaacttga 600
acagctacgg aactcttgct cgtaaggaaa agtaaggaaa acgattcctt ctaacagaaa 660
tgtcctgagc aatcacctat gaacttggtt caaatgcatg atcaaatgca acctcacaac 720
cttggtgag tcttgagact gaaagattta gccataatgt aaactgcctc aaattggact 780
ttgggcataa aagaactttt ttatgcttac catctttttt ttttctttaa cagatttgta 840
tttaagaatt gtttttaaaa aattttaaga ttacacaaat gtttctctgt aaatattgcc 900
attaaatgta aataacttta ataaaacgtt tatagcagtt acacagaatt tcaatcctag 960
tatatagtac ctagtattat aggtactata aaccctaatt ttttttattt aagtacattt 1020
tgctttttta agttgatttt tttctattgt ttttagaaaa aataaaataa ctggcaataa 1080
tatcattgag cmaatctta aaaaaaaaaa aaaaaagggtc gagccggccg gctaattagt 1140
agtagtaggc gccgc 1155
```

<210> 707

<211> 1417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1404)

<223> n equals a,t,g, or c

&lt;400&gt; 707

```
tgagaccctg tctcaataat aataataata ataataatag taataatgaa gtaaatggga 60
taaggaaaga argataatta tctttaaaag ttgattccca ccctccctcc ccagttactt 120
aaggaaactaa gtgagtacat ctccagttgc ccatgaaagc ataagtttgt tttcctcagc 180
tgaggcaagt ggtagagtat acaggataac gaagtaacat gtaaaaggca ggacgcacat 240
aaagggtgtac atggctattg tttcacctgg agaaaccaca tgattgggac ctgaagggtt 300
actgactgac tacaggggct gattgtgaag cacgaggaac cccatgtgtg tggagactgt 360
aggggtgagag cacacaatta ttagcatcat ttctgagtga tctcacagat tttttttctt 420
gtgtttgttt tgctttttga caactgcttc tcccacgttc cttgcaattc tattctctca 480
ccttcacttt actattttgta ttcgatggac caggataatt caggcaaggt taccttgtaa 540
acttgaattg gccacacacc atgttgtcac ccagctggct atgaagtga taatgggtact 600
gaaagtaaac ctgaagacct ttctcagatc tattttaagt ctgagtctga ccaaccatgg 660
aaaatattcg acatgaatta atgtagagaa ctataaagca tttatgacag ctccaagaaa 720
aatcatctac tctatgcagg agatatgttt agagacctct cagaaaaact tgcctgggtt 780
gagggtacac agtaccattt taatcttctg aaaatatctg tattcctgct ctttttctgc 840
tgtcactgtc aatctgctat attttttact atcctattaa aatattactg tctcctttat 900
ctgttcaatg tccatatttt aaaaaaatct tccttgtatg agctattctg atccaaataa 960
tttctctgat atttctctat atggctccca caacaatttc attgttggtt gcataatctat 1020
ttctccatac attgtaaaac tgtaatcctt aggtatttct aaacataaa gaggagaatt 1080
aagtcagctg cagaacaatg gggctgawtc ytctgctttt tctctggaaa atctttcatt 1140
gcttttggtg gaaatttacc tagaggttac aaccacagga tgtagcttgg tctcttattt 1200
gccttttttg gaaaccaatt aagattaata caggataaag gaaaaaagca atctattcat 1260
tatataacac agttgtttgt attacttgtt ccctgcaaag gcaaatctgt tgaatgcttg 1320
catttttgaa ttcttttcta ataggaacaa ccaaaaaagg gcttcttatg ggtgcagncg 1380
ggaaaaaagg tncattttnt tgnnttgcac tcttaac 1417
```

&lt;210&gt; 708

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 708

```
ggtagacagt gtgtctcact aggggtgggtt atcagaaaaa ggctctacaa agtgacattt 60
aaagactgag aggaaaggag agagttgtat cctaccaatg attgcctccc ctctcccaca 120
tattaatgta ttacttaaaag gaactgattt tttaaaattg gattgaatca tggaaacatt 180
cttttgagaat atggaaataa tttaatattt ttcccgtttc cagctcttca gctgtaacag 240
tgactcaaaa tcaattacat taagattagt ttttttgttt tggttttttt ttttaagwact 300
ttgtgcttta aatataagkg aaaatactgk atttactttt gtgtgcttcc atctgaacta 360
aagtttccca tgggygcttac cgagttaggt ctggctctgg gagaggagtg gacagcagct 420
ggtttgagata catccccatc tggagacagg actgccactg acagaagatg tgagctgtgt 480
ctaagtccag tcttgtgccc agccgtgtct gcgccttcac tctttggaac tctgcataca 540
acatcttagc accatcttcc tgcagctctt ccttacctaa ataaagaaac agcccaaggg 600
cagtatttct aaaagcactg taacagcttt tcattttctc cacatatact acaaattcta 660
taaagaaaga aattaattta aaaaaactaa gatgtttttc tcttctggct tcataaatgc 720
cttgctgtat aaattgaaat attgatactg aactgtcttt ttaatgatga cctaacttta 780
ttcaacccat cggaattttac tttttccctg aaataagatc ttttccactg gtctactacc 840
tgaccataaaa catgtctgca tttgaattct ctaaacctta aatctgtgtc tatgaaaaat 900
acaaatgact attaaatatt attctcttta ctgttctctt tcaccgaa 948
```

&lt;210&gt; 709

&lt;211&gt; 1329

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 709

```
ggcacgaggg gagtgcgtgc gtgggggatt gtgggaaaag atggcggctg ccgcacaatc 60
ccgggttggtc cgggtcctgt caatgtcacg ttctgccatt actgcaatag ccacatctgt 120
gtgtcacggc ccaccctgtc gccagcttca tcatgccctc atgcctcatg ggaaagggtg 180
acgttcctca gtcagtggga ttgtggccac tgtgtttgga gcaacaggat tcctggggcg 240
atatgttggtc aaccaccttg gacgcatggg gtcacaggta atcataccct atcgggtgtga 300
taaatatgac atcatgcacc ttctgtccat ggggtgacctg ggccagcttc tgtttctgga 360
atgggacgcg agagataaag attctatccg acgagtagta caacacagca atgtggtcat 420
caatcttatt ggacgagact gggaaaccaa aaactttgat tttgaggatg tttttgtgaa 480
gattcccca gcaattgctc aactgtccaa ggaagctgga gttgaaaaat tcattcatgt 540
ttcacatctg aatgcgaata ttaaaagctc ttctagatat ttgagaaata aggctgttgg 600
agagaaagta gtgagagatg catttcggga agccattatc gtaaagccgt cggacatctt 660
tggaagagag gatagattcc ttaattcttt tgcaagtatg catcggtttg gtcctatacc 720
ccttggttcc ttgggctgga agacagttaa acaaccagta tatgtcgtag atgtatccaa 780
aggaattgtt aatgcagtta aggatcctga tgccaatggg aaatcctttg ctttcgttgg 840
tcccagtcgg tacctccttt tccacctggt gaagtacatc tttgctgtgg ctcacagatt 900
gttctcccca tccccttgc cgctttttgc ctatcgatgg gtagcaagag tctttgaaat 960
aagcccattt gagccctgga taacaagga taaagtggag cggatgcaca tcacagacat 1020
gaaattgcct cacctgcctg gcttagaaga ccttggtatt caggcaacac cactggaact 1080
caaggccatt gaggtgctgc ggcgtcatcg cacttaccgc tggtgtctct ctgaaattga 1140
ggatgtgaag ccggccaaga ccgtcaacat ttagtgccct ctgagcagct cttgggtttg 1200
gcgtcttttg ggtcggccca tgtggtttga gcaccagcc aggcggtctc tttagaggat 1260
cctgtacaca gttccactat taaaacattt caggttgaaa aaaaaaaaaa aaaraaaaaa 1320
raaaaaaaaa                                     1329
```

&lt;210&gt; 710

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (529)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 710

```
attctgactt tggttttgat tctggtttgg tataaactgt aaaagtgtgt gtgtgccctt 60
tttacctgtt ctttgttttg tgggtgtgtg atggtgtgag tgtggtgttt tgtcttgagg 120
aagcatgggt caggcacaaa gtaagcccac cccaccagga actatgttga aaaatttcaa 180
gaaaggattt ragggagatt acggtgttac tatgacacca ggaaaactta ggactttgtg 240
tgaaatagac tggccagcat tagaggtggg ttggccatca gaaggaagcm trgacaggtc 300
ccttgtttca aaggtatggc acaaggtaac ctgtaagcca gggtgcccag accagttccy 360
gtacatagac acttggttac agctggtttt agrcccttcc tacccccacg gtggttgaga 420
gaacagcagc ataagcagct ggcagaggca aggaaagacc agcaaagaga cagagaagaa 480
agagacagga aaagaggcaa agagagagaa gaagagagag aggaagagnc agag 534
```

&lt;210&gt; 711

&lt;211&gt; 1143

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (77)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1110)  
<223> n equals a,t,g, or c

<400> 711  
aaatgctcca gggnatcgct ccaacaactt aaaggaggct naacacctgt tgcacgcctg 60  
ctcatggcag cgcttgnaga aatgactggg ggagtccagc gaggtcgggg acgcagcggt 120  
ctccaggctc cagaaacctc cttagccttt tgtggtaact ttggtccggc ggcggggggc 180  
cggtgagcag gaactggagg gaggcggtgg ggaaaccgtg gatccgtccg gctgagggtg 240  
cgtggatcag actgggctga gcaggcaagt catcgctcgg tcacagcgag gcgaccagg 300  
agcgaacttc cagggcagcc tcccttttgt tggcgctggg agagaatgtg ggcattggggg 360  
tggggaggcg cgaagctccg agggcggggc gcggatactt taaagctcag agctggggagg 420  
gccccaaagga aggggcggcg tscmcatggt tacccttctg tgcgcgggtc aagtagcttc 480  
ttctggaggg cgcaaggcgc ggcgggggtg atgagccctt gggttctcgc tccgactgct 540  
aaattcgctt ggccgggtcc accttctcgt ggcctcactc gccacacgga tcagaatccg 600  
gagcaggcag ttctctctat tctgaggctc ctgcggctgc cgcgctgact tccctgtgtg 660  
cgggagggaa ctctgggcag gctggttttc ttggaatgtg ttacgatgt tgaatgggac 720  
ttgaacagga agctggacgc tgcagctgga actagcgtgc caagttattt atgattccat 780  
ctgatataca taggagagaa actgatagaa gaattctgat ggcaactgta tgatagaagc 840  
tatataaagt caagtgtcca ttttctttca actatatttg agcataccca ggrrtttaagt 900  
cgtggaactg aacatttatt tggtgatcc tcatcatgaa ccgtgctttt agcaggaaga 960  
aagacaaaac atgggtgwt acacctgaag ctttatcaaa acatttcwtt ccctataatg 1020  
caaagtcttct tggcagtaca gaagtggaa agccaaaagg aacagaagtt gtgagagatg 1080  
ctgtaaggaa actaaagttt gcaagacatn tcaagaaatc tgaaggccaa aaaaaaaaaa 1140  
aag 1143

<210> 712  
<211> 3779  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature

<222> (3758)

<223> n equals a,t,g, or c

<400> 712

```
tctttattcgt grattttcttt tgacacttta cccctctatg aagcctcaga ggtgttttta 60
aatttgtgta ggaaacacac agagataaga aaaggcaaat ggtcctgac tagtgtctca 120
gggaagagtc tggaaaggaa acgcggcgra gtgggktggg agagggggcy tgtggttttg 180
cttctgtccg ggctraagac tgagtaaggt agggccctc cttctgcgga tgggtttctc 240
tctcattcca cctccaccc actccggttc cgcgtgcacg cgragatagt ccartgggcc 300
cacagataac gaccatcaga gattaaagaa ggaaagtcag cgagcttgaa cacaggcgtc 360
ccgtgtggaa atgtccaagg agaccgccag aagtgcgcaa gccggagtcg gctagagttt 420
ccttctcacc gagaggggga gcccgcggtt cccggccggg agcgaccggg agtccccagc 480
cccgcgtccc agctgccgcc agcgccagtt ttggattcgg cggattagga agaggaggga 540
ggggggagag agcgcgaaga gggaggggac cgaagctgga ggggtccgag tccagcgccg 600
tgttgcgta ragaaacttt ccctctcggc ctccggagacg gcgccccggm cgtgcyggag 660
tggmratcgc caggctcggg ggaaccggca gctctccacg cccctgcccg aagcctgacc 720
cgactgcctc tctcagttag ttatttatga ttccatctga tatacatagg agagaaactt 780
atagaagaat tctgatggca actgtatgat agaagctata taaagtcaag tgtccatttt 840
ctttcaacta tatttgagca taccaggat ttaagtcgtg gaactgaaca tttatttggc 900
tgatcctcat catgaaccgt gcttttagca ggaagaaaga caaaacatgg atgcatacac 960
ctgaagcttt atcaaaacat ttcattccct ataatgcaa gtttcttggc agtacagaag 1020
tggaacagcc aaaaggaaca gaagtgtgta gagatgctgt aaggaaacta aagtttgcaa 1080
gacatatcaa gaaatctgaa ggccagaaaa ttcctaaagt ggagttgcaa atatcaattt 1140
atggagtaaa aattctagaa cccaaaacaa aggaagttca acacaattgc cagcttcata 1200
gaatatcttt ttgtgcagat gataaaactg acaagaggat attcactttc atatgcaaag 1260
attctgagtc aaataaacat ttgtgctatg tatttgacag cgaaaagtgt gctgaagaga 1320
tcactttaac aattggccaa gcatttgacc tggcatcacg gaaatttcta gaatcaggag 1380
gaaaagatgt tgaacaaga aaacagatcg cagggttaca aaaaagaatc caagacttag 1440
aaacagaaaa tatggaactt aaaaataaag tacaagattt ggaaaaccaa ctgagaataa 1500
ctcaagtatc agcacctcca gcaggcagta tgacacctaa gtcgccctcc actgacatct 1560
ttgatatgat tccattttct ccaatatcac accagtcttc gatgcctact cgcaatggca 1620
cacagccacc tccagtacct agtagatcta ctgagattaa acgggacctg tttggagcag 1680
aaccttttga cccatttaac tgtggagcag cagatttccc tccagatatt caatcaaaat 1740
tagatgagat gsaggagggg ttcaaaatgg gactaactct tgaaggcaca gtattttgtc 1800
tcgaccggtt agacagtagg tgctgacatc aagaacaaga aatcctgatt catgttaaat 1860
gtgtttgtat acacatgtca tttattatta ttactttaag ataggtatta ttcatgtgtc 1920
aatgtttttg aatattttta tttttgaaa attttctcag ttaaatttcc tcaccttcac 1980
tattgatctg taatttttat tttaaaaaca gcttactgta aagtagatca tacttttatg 2040
ttcctttctg tttctactgt agatgaattt gtaattgaaa gacatattat acaaatacct 2100
gccttgtgtc tgagttctat ttagtttagca tcttgaaatt tgtattcatt ttccagatgg 2160
ctagtttatt aatgatttcc caaaagccat accttaaaga taacttttta aattctgaag 2220
agacatgcca atgtcaaact aaacatgttc tgtttttaaa ccaacaaaca tgttactatt 2280
cattggacag atatcatttt atgtataaat actgttcaca tcaactggga aatgtaaact 2340
ttaaacataa tgccacaagg tcactaattt ctagcaggta aaattataag gatataaatt 2400
ccaataataa accaaatgta tttagagtat ttattagtaa atgcaagggtg atgttagtta 2460
tgatcagtta tactctaaat atttaatttg ttttataaag gtagtgaaaa aatgaaaatt 2520
tgctatttat taaaaaacat taaatttcat tccaaatgag ataagtgata ttactataac 2580
atctaagcat catctgattt gatattccct aaaaaacatt tggaatatat gctatctata 2640
gattcagtat ctactacca tatttacttt accaaatata tttctcctca ctgcataagg 2700
actactcttc tcatattttt ttctttgatg aagatatttt tcaccaaagt ttattttgtg 2760
```

atgccctcctt ggttttgata ctttaaaatc tgtggcaccc gttctacatg aattatcaat 2820  
atttggtaaa ttcaatctgt atttgttttg ttaaagtcaa aaatctcatt ttccaaaaaa 2880  
aaaaaaaaaa cccagttact gctcagttta gtcttgaaca tgagcaataa aattctcttg 2940  
catttcatta ttgatgtgct gatgaacctg gactttttaa aatatttggt tcctatacct 3000  
ttacccttta cctaacagac taatttgtag tcagtaaaac aaaaatttat ggtcaaaatt 3060  
tctaacttgg ttcatacat tataagataa ataaattaaa ttaatgaaaa tgtgacttag 3120  
agtaggggta gccctcaaaa atagatttat catttactca ttggaatttt cttcaagtgt 3180  
taaagggtaca ttttcactag gaaaagaaat caaatatgct tatgcaatat atatttggtg 3240  
gtttttcctt aatgtttatat ggtatatatg agccttcttg tttagtttct tttatctgct 3300  
aagttgtacc ttaattagag ggcaatatat gtttcataaa gaagagtctt tataattttg 3360  
ttgtgcagat agtatttttg aatttggtata ataaggatgt ttagaagcca tataagtggc 3420  
tttttttaac agatagaatt tgtattttta ttgtacttta aaaagattta tgtaataggt 3480  
atatatttag tggccattta ttatcaatgg taacacaatg gagtactaag atgggtatttg 3540  
cacatttaag atatgttact ttaccaattt ttaatggtaa tcaactctgc tactggcatg 3600  
atgaaatagt acataactgg tcattaatta tgaacattta yttctccagt gcgtttttat 3660  
gaagatctgg ttgaaaattg tatttctatg taaactcaac gatatgtttg gttttcctga 3720  
aaataaatga ttttaataa aaaaaaaaaa aaaaaaanaa aaaaaaaaaa aaaaaaaaaa 3779

<210> 713

<211> 1036

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<400> 713

ncgccctgtg ctggaattcg gcttngagcg gccgccggg caggtacctc ggtntcaggt 60  
tcattccatct ccagtggaaat gttttcaata aaagatgaag aaaatgtgtg tgatctttaa 120  
taacacatcc ctatagaaaag tggataaaaag atataccaaa actgtaatac agatatatac 180  
aaatatagggt gcctttttga ttactcttgt ttgtctagta tggctctgga aagaaaacca 240  
agcaagcaag ttgctgccta ttctatagta atattttatt acacatgatt gatatttttg 300  
tggtagggaa gtgggatgct cctcagatat taaagggtgt agctgattgt attttatctc 360  
taaagattta gaactttaga aaatgccgac ttcttccatc tatttctgaa aggttctttg 420

tggatttata tagagttgag ctatataaac attaacttta gatttgggat ttaaaatgcc 480  
tatttgtaaga tagaataaatt gtgaggctgg attcactaca caagatgaac ttcacttcat 540  
aaattaatta taccttagcg atttgcttct gataatctaa aagtggctag attgtggttg 600  
ttttggttaa ggtgatatgg aggtgggaga gcttttagtt aagtaagaag ctatgtaaac 660  
tgacaaggat gctaaaataa aagtctctga agtattccat gccttttgga ccctttcctc 720  
gcaactaact gtcaactgtt gatcaaaaaa gtcaaggcat tgtatgttgc ttctgtggtt 780  
attattctgt gatgcttaga ctacttgaac ccataaactt ggaagaatct ttgagcaaat 840  
tttctcagtt gtctgtatga cttcagtata ttcttgggaa tgccatagga ttttttgtgc 900  
ttgatacatg gtatccagtt tgcatagtat cacttctttg taatccagtt gctgtttaaga 960  
atgatgtacc tcggccgcga ccacgctaag ccgaattcca gcacggctgg cggccgntaa 1020  
tagggatcca gggtcg 1036

<210> 714

<211> 4443

<212> DNA

<213> Homo sapiens

<400> 714

cccacgcgtc cgcccacgcg tccggattac ttgttccctg caaaggaaat ctgttgaatg 60  
cttgcatttt gaattctttt ctaatagaac aacaaaaaaa ggcttcttat ggtgcagcag 120  
gaaaaaagat catttttata gctttgcatt cttaacatag catttaaaga gcggcatgaa 180  
ttagaggaaa gacatggaac acacaggtag tcggtttgag atcatcggct taaaagtatc 240  
ctaggatggt aatgaccag aagtatttcc agttgtctag tgggtgtgga tgcaggaatg 300  
agagtgtttt cttccattcc tgttggacar gtggcaatct tagcagagcc actatttgga 360  
gttgataact aaagatgcaa ataacrtgac tatgccttct ggatcatccta sgactatttg 420  
gagtttctcca aaaccttgta agaggcatgt caggcatgca gtaaaagcat ctacaacttc 480  
agctgggcac tggcagcata ggtctcatct tggaccatac agtcccactt tatagaagag 540  
rgtggaagtt ctccaaaaca atatccacaa caaagtctga cctcactctg agggagatgg 600  
gaagtgggag gaagaaggac taaccagctc cctggagtaa gaggaatttg ctttccctgt 660  
ctgcccacca ggggctatat gtgccacctt tcagggttggg gccaaggaag tgatgtcagt 720  
gtgacagaag ggagagttag acctccagac gtcagcctcc ctcccatggg gtacattttc 780  
aatctgagtg ttgttgccct agctgtgttg gtattagctt gattggttgs tccgctggtt 840  
atgaggtgta gggaggcagt ttttgtttag tttttaggac ttgacctctt cctttgtcct 900  
tagcataatt tctaggcaga gcatccacga agtcgggttt cattgccagc tcaagagcga 960  
caatcattta cgagttccta tgttatgta ggtgccttat gtatattatc ccaaatccac 1020  
tgcattggtt aaatacaggc actggaatat aaatgaaaaa ggtcattaca gtcactgact 1080  
ttctgcagga ccttaaacad ttctctttcc acaagtttcc ccttaatcat gtgtcaaacc 1140  
tctcttctcg acgggaatgt tgtgctataa tgaatctgca taacgcttgg gattctagga 1200  
ggaaggaagg ttccatggac atgtaagtac agcatattcc cctcagtctt ctaggagggc 1260  
agagtgaatc ccagaactgg taagattggg aatctgagca ttgccacttt aatcttagaa 1320  
tatttatcat tttagacat cctgtttttt agagaggaaa acaaacacag tttctgcatt 1380  
ggtagtgtaa agcatacctt gtttaggaacg tgttttgtaa gacacatttg ggttgtcatt 1440  
ctagagcatg tcaaaacttg tacttcaaaa tatatttagt atgattgtta gtggtaacat 1500  
atatcaaggc tttgaattaa ctgttttatt taattttcac aagaagcact tatttttagcc 1560  
ataggaaaaac caatctgagc taaaaatagt tctttaaaaa aagcccaggt tatttagcta 1620  
ttctagaaaag tgccgacttc tttcaagaag caggcattgt aggacagctg agaattatca 1680  
catagcctaa attctagcct ggcagcaaga gtcacatctg agatgtccaa aaaaaaaaaa 1740  
aaaaaacacct grtctacatt gaaagggggg agactaacgt atgtgagacc attttccctat 1800  
ttgcagttac aaggttaaa gaaactkgaag gcattcggct gctaagaggc atgtcgaaca 1860  
ctctgktgg ctctttcaca gtaaaccty ctaagagcag aagacacatg gctgttagtg 1920  
tctgcgttta gatttaattt ctcaaataaa ggcccttggc tgcgtatcat ttcattcagt 1980



tataaactag ggctcctgca agcacccecca ttctaagggt gaattattga aatcagttgc 2040  
tatttgatga gtcacaactg gcccagcagg cagggcattt gaagtcattg tcatcaaaaa 2100  
gaaatgattg ttttttgaaa agctaaatgc ttaaaatgct tctagaggga agtcgtgggg 2160  
cgtgtgctca ttctctttaa aatcagggtt gttgagttt tttttaaaca tttttataag 2220  
ttcatgagaa aaaatatata aattctaaga accaactctg tattcccaga aacatgaccc 2280  
tcgctgggtc tgggtccaca tatcattgga ctctggggga cacaaagatg cctgtgacac 2340  
tttgggtgtg ccgagttagt caacaattat tctgggaaaa agcagaattg aattcttctc 2400  
tagatgtcct accagggttg gccaaaggcc acaaagcagg ctaataaatt cccacaggat 2460  
ccagacacca ggcaaaattg ctctaagaag ccagttactg tcatccctct atggttctag 2520  
aaaaaatagt acaaaaatga caggctcatc tatgagcgtc atgccaatga aaccccatct 2580  
tctggagaag cccttgaatc agaattatct ttttcttga tgcgtcaga tgcagccagt 2640  
ttcttaattt ttttaaaaac tgtatgttct tgtgggtatg atatttgtac acctaaactac 2700  
ctggcacttg gaaatcacag cactactcag aggcaattga ataaagagaa atttaatttt 2760  
aaatatcaag tcctgtcaaa catttctcaa acttctgatt ttatcaaagg tttgccagcc 2820  
aataaagtgc atcccaagta tacaggggag aaagctagac tcctacaggg tcctagagtt 2880  
taagtaattt tttgttatt aatataggta ataatttttc taatttttat tttttggttc 2940  
caaatgtaaa gtccttgtg tttacctctg tttatgtcat tcttgacatg tttatctaaa 3000  
ttatgtgtgc tctgtgacag gtgaaatgta aatctgggat ccatagtcaa gatatacata 3060  
ggacctactt cccagcctac ctttcttctc ctacctgata atgataatac tcaaaaataac 3120  
aacattcaaa ggaaacacaa agaaatcctg ctttcacatc tcctatttct tgggctcctt 3180  
aataactact gatggtttgt tcatgaaaaa aaatttttaa atcaaaagat tgtacttggc 3240  
cctgagttga aaaaatttca aaatcaaaa gtttgtactt ggccctgagt tgaaaaaaaa 3300  
aattcacatt ctaagaataa acagaaaaat gttcttcttg gaagtaaata acaaaagcca 3360  
tagtgtttct atttgtcttt tcttcaggat acacggtaga agtcagagaa tctttgatac 3420  
ttttatttgg tgcaataatc aaggccatgc aacaacccaa aatcaagcat tttggttcaa 3480  
gtcaggatga catgagtggg gacagaagct gtggcagtc tcaaaataat ctcatgggtc 3540  
ctgaggaaaa gacaggagtt aaygtattaa gtttctacta tatgcaggaa ctgtgttaaa 3600  
tattttacat aagttttgat aatagctaac attagctgag cacmaaattt gggccctgat 3660  
ttgtgctgrg tatctttcac agattactgc ttttaatcag cagtccttgt gagctaggta 3720  
tgatcattat cccattttta tagattacag atgagattct gargcacaaa gaggctaagt 3780  
aacttgccaa agatcatacg atgttaagtw atggcccctg gattcagtc gcagcctgaa 3840  
ttcttaacca attatactgt gatttcatta ttcttcagaa ttactactaa aagaaggat 3900  
tattccatt ttacagatga ggtatctaag ctacagagaag cttaaacaact tgtgcaacaa 3960  
tcactaagct tataagcagt ggattagggt tagattttaga tatttgtctg gcatccaaac 4020  
ctgtgctctc cctacagtac cacatggtt ccacagtctc atcagacccc ggaatttcac 4080  
tccttgagac tgcttaattg tgaatttccc aaactgattc accaagagcc tactgtctct 4140  
gctttgtaga tagctttgac cacattcaat gacattagga aagactccat ttcccaagat 4200  
ggctcagaaa atcagatgct atgacgcatg ttgaaagtga aaacccatct ctgagaaaga 4260  
agcatctgtt ttattagtaa aaaaaaaaaa atgaaattta cagcaatgtt gtgtgacttc 4320  
tcaaaattct ttcatcttct tatttcagaa tgaatagtgt tgttcgttgg ctgggaatgg 4380  
ggaagaatgt gattttttaa aataaagcat aatcaaactc tgcayaaaaa aaaaaaaaaa 4440  
aac 4443

<210> 715

<211> 2099

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<400> 715

```
caggcaaggc agtggccgct ttgactgctt gcttcggaga tmcgagacga cggagaaggc 60
actcttattt accgaccaag aaagctcctc ccccgctcctc cgttagctaa ttaaaacatt 120
tttcagggac gtagccatcc agagacattc cattattgtt ccattgacct ttccctcatc 180
actgagtcct ttggagctga gttatgtcaa cagctgcctt aattactttg gtcagaagtg 240
gtgggaacca ggtgagaagg agagtgtgc taagctcccg cctgctgcag gacgacaggc 300
gggtgacacc cacgtgccac agctccactt cagagcctag gtgttctcgg ttgacccag 360
atggtagtgg gagtccagct acctgggaca attttgggat ctgggataac cgcattgatg 420
agccaattct gctgccaccc agcattaagt atggcaagcc aattcccaaa atcagcttgg 480
aaaatgtggg gtg'gcctca cagattggca aacggaaaga gaatgaagat cggtttgact 540
tcgctcagct gacagatgag gtcctgtact ttgcagtgtg tgatggacac ggtggacctg 600
cagcagctga tttctgtcat acccagatgg rgaaatgtat tatggatttg ctccctaagg 660
agaagaactt ggaaactctg ttgaccttgg cttttctaga aatagataaa gccttttctga 720
gtcatgcccg cctgtctgct gatgcaactc ttctgacctc tgggactact gcaacagtag 780
ccctattgcg agatggtatt gaactgggtg tagccagtgt tggggacagc cgggctatct 840
tgtgtagaaa aggaaaaccc atgaagctga ccattgacca tactccagaa agaaaagatg 900
aaaaagaaa gatacaagaaa tgtggtggtt ttgtagcttg gaatagtttg gggcagcctc 960
acgtaaatgg caggcttgca atgacaagaa gtattggaga ttggacctt aagaccagtg 1020
gtgtcatagc agaacctgaa actaagagga ttaagttaca tcatgctgag gacagcttcc 1080
tggctctcac cacagatgga attaacttca tgggtgaatag tcaagagatt tgtgactttg 1140
tcaatcagtg ccattgatccc aacgargcag cccmtgcggt gamtgaacag gcaatacagt 1200
acggtactga ggataacagt actgcagtag tagtgccctt tgggtgcctgg ggaaaatata 1260
agaactctga aatcaacttc tcattcagca gaagctttgc ctccagtgga cgatgggcct 1320
gattaccagc tgggacttag agtttctgtg cacatttttt cactgagcat gtcaagaaac 1380
tgataagatc aaaaaggctc cctaactcac tagatcagcg cacaagtcag tgtaaaccac 1440
ttagatagta gttttttcat aaatgctcat catattttatg ttccgctgta catgttcagt 1500
ataaatatat gtgtagtga gctactgtga gtctttaaat ggaaagagca aatgagaagt 1560
ggtttgata cacttgatga gagatgagag tgtcacatta ataattttta agactcttag 1620
gcagctatgg gtttcttttg atcatttttg ttctttattc atttgaacac gtttttgaag 1680
ttcttcaaaa ctagtcaagt tgaattttga cagctattca atatgtgatc tccaagttta 1740
aaaaaatttt ttccagact tccctaattc taaaatgcga gtttttattt ttaataactg 1800
taccaaggaa taagtatgaa aacagttctc tgttaccata ttttgattc tggaccactt 1860
actggtgaaa gcaaccatgc aaaagaaatt aatttggsca ggcatgagcc accgcacctg 1920
gccagatctt tgtatgtctt aagtgtttca aagttataag catttttctg gggggatgtc 1980
cattttggag ggatccattt tgatcctttg tactctataa tgtgaacttt cccctgttcc 2040
aacacttaaa agaaaattat tagcacataa tctaaaagat ggaatttttt tttttnctt 2099
```

<210> 716

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 716

```
ttcgacccac gcgtccgccc gggcgcacgg ccagccgtct cgcgcagtgc ggactggccg 60
gatctgctgt cagtcagcgg gaacagactt ctccctctcc atctggtcaa ctgcgggaga 120
aaaattttcg agaattttcca gcaggcaagg cagtggccgc tttagactgt tgcttcggag 180
atccgagacg acggagaagg cactcttatt taccgaccaa gaaagctcct ccccgctcct 240
ccgttagcta attaaaacat ttttcaggga cgtagccatc cagagggatt tgcttcctaa 300
ggagaagaac ttggaaactc tgttgacctt ggcttttcta gaaatagata aagccttttc 360
gagtcattgcc cgctgtctgt cttgatgcaa ctctttctga cctctgggac taytgcaaca 420
gtagccctat tgcgagatgg tattgaactg gttgtagcca gtgttggggg acagccgggg 480
ctattttgtg takaaaagga aaaccntga agttgaccat tggaccataa ttccagnaag 540
gaaaagntgg aaaaaggaaa ggtccaagga atgt 574
```

<210> 717

<211> 847

<212> DNA

<213> Homo sapiens

<400> 717

```
gcgtcgcgcg ctcttctctg gagctaccca ggcggctggt gtgcagcaag ctccgcgccg 60
accccgagac cctgacgcct gacgcctgtm cccggccccg catgagccgc tacctgctgc 120
cgctgtcggc gctgggcacg gtagcaggcg ccgcctgtgt gctcaaggac tatgtcaccg 180
gtggggcttg ccccagcaag gccaccatcc ctgggaagac ggtcatcgtg acgggcgcca 240
acacaggcat cgggaagcag accgccttgg aactggccag gagaggaggc aacatcatcc 300
tggcctgccg agacatggag aagtgtgagg cggcagcaaa ggacatccgc ggggagaccc 360
tcaatcacca tgtcaacgcc cggcacctgg acttggttc cctcaagtct atccgagagt 420
ttgcagcaaa gatcattgaa gaggaggagc gaggggacat tctaataaac aacgcgggtg 480
tgatgcggtg ccccgactgg accaccgagg acggcttcga gatgcagttt ggcgttaacc 540
acctgggtca ctttctcttg acaaacttgc tgctggacaa gctgaaagcc tcagccccctt 600
cgcggatcat caacctctcg tccctggccc atgttgctgg gcacatagac tttgacgact 660
tgaactggca gacgaggaag tataacacca aagccgccta ctgccagagc aagcttgcca 720
tcgtcctctt caccaaggag ctgagccggc ggctgcaagg tacggggggc ctaggctcgg 780
cctccctctt gctttactct gagcctagag cggcctttcc atgacccatg gcttgggaatt 840
ggggggggg 847
```

<210> 718

<211> 2086

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1863)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1913)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 718

```
gtaaacaaca ggactataaa tatcagagtg tgctgctgtg gctttgtgga gctgccagag 60
taaagcaaag agaaaggaag caggcccggtt ggaagtgggtt gtgacaaccc cagcaatgtg 120
gagaagcctg gggttgccc tggctctctg tctcctccca tcgggaggaa cagagagcca 180
ggaccaaaagc tccttatgta agcaaccccc agcctggagc ataagagatc aagatccaat 240
gctaaactcc aatggttcag tgactgtggt tgctcttctt caagccagct gatacctgtg 300
catactgcag gcatctaaat tagaagacct gcgagtaaaa ctgaagaaaag aaggatattc 360
taatatcttct tatattgttg ttaatcatca aggaatctct tctcgattaa aatacacaca 420
tcttaagaat aagggttcag agcatattcc tgtttatcaa caagaagaaa accaaacaga 480
tgtctggact cttttaaatg gaagcaaaga tgacttcctc atatatgata gatgtggccg 540
tcttgatat catcttggtt tgcccttttc cttcctaact ttcccatatg tagaagaagc 600
cattaagatt gcttactgtg aaaagaaatg tggaaaactgc tctctcacga ctctcaaaga 660
tgaagacttt tgtaaactgt tatctttggc tactgtggat aaaacagttg aaactccatc 720
gcctcattac catcatgagc atcatcacaa tcatggacat cagcaccttg gcagcagtga 780
gctttcagag aatcagcaac caggagcacc aaatgctcct actcatcctg ctctccagg 840
ccttcacac caccataagc acaagggcca gcataggcag ggtcacccag agaaccgaga 900
tatgccagca agtgaagatt tacaagattt acaaaagaag ctctgtcgaa agagatgtat 960
aaatcaatta ctctgtaaat tgcccacaga ttcagagttg gctcctagga gctgatgtg 1020
ccattgtcga catctgatat ttgaaaaaac agggctctgca atcacctgac agtgtaaaga 1080
aaacctccca tctttatgta gctgacaggg acttcgggca gaggagaaca taactgaatc 1140
ttgtcagtga cgtttgctc cagctgcctg acaataaagt cagcagctta taccacaga 1200
agccagtgcc agttgacgct gaaagaatca ggcaaaaaag tgagaatgac cttcaaacta 1260
aatatttaaa ataggacata ctccccaatt tagtctagac acaatttcat ttccagcatt 1320
tttataaact accaaattag tgaaccaaaa atagaaatta gatttgtgca aacatggaga 1380
aatctactga attggcttcc agattttaaa ttttatgtca tagaaatatt gactcaaacc 1440
atatttttta tgatggagca actgaaagggt gattgcagct tttgggtaat atgtcttttt 1500
ttttcttttt ccagtgttct atttgcttta atgagaatag aaacgtaaac tatgacctag 1560
gggtttctgt tggataatta gcagtttaga atggaggaag aacaacaaag acatgctttc 1620
catttttttc tttacttctc tctcaaaaca atattacttt gtcttttcaa tcttctactt 1680
ttaactaata aaataagtgg attttgtatt ttaagatcca gaaatactta acacgtgaat 1740
attttgctaa aaaagcatat ataactattt taaatatcca tttatctttt gtatatctaa 1800
gactcatcct gatttttact atcacacatg aataaagcct ttgtatcttt ctttctctaa 1860
tgntgkatca tactcttcta aaacttgagt ggctgkctta aaagatatataa ggngaaagtg 1920
gcctatgtgg aagcctacca ggaggttaagg gtgagccgac cgcgcctcat ttgagaggtg 1980
gacgggggat atacacggga aaaaacgttc gggccttgag ttcggcggtt ggggttgcta 2040
cgcccgctg gccgcttgac cgcggaactcc cgctcgctgc gcaaac 2086
```

&lt;210&gt; 719

&lt;211&gt; 2418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2401)

<223> n equals a,t,g, or c

<400> 719

nnggacgcgt gggtagcggt gcgagaagac gacagaagg gggagtcaag ggcctttgcc 60  
cgccttggcg gccggctcta cgttccctgt tctcgccctgc agctccgcca tggctcctaa 120  
aggcagctcc aaacagcagt ctgaggagga cctgctcctg caggatttca gccgcaatct 180  
ctcggccaag tcctccgcgc tcttcttcgg aaacgcgttc atcgtgtctg ccatcccccatt 240  
ctgggtatata tggcgaatat ggcataatgga tcttattcag tctgctgttt tgtatagtgt 300  
gatgacccta gtaagcacat atttggttagc ctttgcatac aagaatgtga aatttgttct 360  
caagcacaaa gtagcacaga agagggagga tgctgtttcc aaagaagtga ctcgaaaact 420  
ttctgaagct gataatagaa agatgtctcg gaaggagaaa gatgaaagaa tcttggtgaa 480  
gaagaatgaa gttgctgatt atgaagctac aacattttcc atcttctata acaacactct 540  
gttcctgggtc gtggtcattg ttgcttcctt cttcatattg aagaacttca accccacagt 600  
gaactacata ttgtccataa gtgcttcattc aggactcatt gccctcctgt ctactggctc 660  
caaataagacc atgtcagctt caccctctgg ctttgtgtct atgggtggcc tgtggtatat 720  
ggaaaagtag cagggtggtc aggggtgggag acacaagatg tttttatagt ctagagcctt 780

```
taaaaaaccc agcagaatgt aattcagtat ttgtttattg gctgtttttt gacagattgt 840
tgaattataa tgaattgaaa gggaaactca gagtactagg acgtttatta aaaggaaaaa 900
aatgtcttgc aatgtgctgt aatcacaaga ggagaaaata acttgtttcc ttgatctgtc 960
agaggtcaca gtaacctggg ccgagctggt attatttatt atataatagt agtaggaagt 1020
taataactgg ttctctgtgt tccaagcaca atattacaac ttcttttgaa ccgtaaatat 1080
cagaatgaat cctcttccca ggggattgaa cagaagctta atgtttacaa gtgtttgaat 1140
ttgtgatctg aaataacaca aaattaaaaa catgatttct ctaattttcc aactagagga 1200
agagaaactt gtggaagaat tctttttttt tctttttttt ttcttaaaga agggcagcca 1260
aggtagtaac ctaaaaatag tgcccaggca tatgagagtt gtcctacgag gttaaagaac 1320
acactgttcc actgtatggc ttggtccctg agtggtccagg gagggtcaact tgacctgtcc 1380
atgttggttt gacttactaa gacacaggaa tcattgtttt ccttgaccag ggtctcacac 1440
cctggaggaa tgtaagtaa gagaaagaac ctctttcctg aatattgaca tgtaaaagac 1500
caaagtaatt tttctgaact tctgcaattc tgagaactct ccaaggaatt tacagtgatt 1560
ttagtgttg tcagcatttt tccatgagga ctttcataca ttgactctt tagttcacag 1620
gttcccattg attgtgagca agatatttat ctctttagcc cttggggatc cagctgagag 1680
caatctcttg cattttttta cccgtgtatg tacagatatc atttcttgtg tatgccatga 1740
cttgaaaaag tttgggaagc tctttagcaa tatcagctaa aaggatatga aatcacaggt 1800
gatagcagtt gtcattcagt aatttcctac aagcagcacc ccaaaggaaa tatagtccta 1860
atctttacta tccacttcta aatttaatgt gaatttcata catgttatta gttgttttct 1920
ttataatttt ataaaaatta ttcacgga gtttaacttc cacttccatg ctatcggatg 1980
tggtgggctc catgcaagaa cttggaagaa aaacaggcag gaatgcattt gcataatgac 2040
ccagatcatc attttctgca actgagaatt atatttcac cttgcttcta gaagtctgca 2100
attctttact tttctttggt gcattattat ctagggtgcca tctactggata atgtggagtg 2160
actagagaag tcayatatca ctgtaaggta cagttagggn taacacttta naggtttatt 2220
atttttaaaa aacttttctt gaactcctgg gccaacatgg gtgaaacccc gtcttcttac 2280
ttaaaaatac ccaaaattag gccaggggcg tggatgggtg ggggtgcctgt taatcttcag 2340
ctacttnggg gagggcttga agccaggggag gaactgccct gganccccgg gnggggccag 2400
naggtttgcc agttgagt 2418
```

<210> 720

<211> 2541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2538)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2540)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 720

```
gggagctagg agctggcggc gacggccaca ggggcggcga cggcgcagtg cgaagcgaaa 60
cagcacccga cagctacaaa gtgcaagata agaaaaatgc ctccagccgc cctgcctctg 120
caatttcagg acaaaataac aaccactcag gaaataaacc agaccctccg cctgtgttac 180
gtgttgatga ccggcagcgg ctggcccggg agcgacgtga ggaacgggag aaacagctag 240
ctgcaagaga aatagtgtgg ttagaaagag aagagcgagc caggcagcac tacgagaagc 300
acctggaaga gcggaagaag aggttgagg agcagaggca gaaggaggag cggaggaggg 360
ctgctgtgga ggagaagcgg aggcagagac ttgaggagga caaagaacgc cacgaagctk 420
ttgtacggcg cacaatggaa aggagccaga agccaaaaca gaagcataac cgttggtcgt 480
ggggaggctc tytccatggg arccctagca tccacagtgc agctcgccgc ctgcagctca 540
gcccattgga gagcagcgtt gttaacagac tccctgacgc cacacattcg ttcctggcca 600
gaagtaaaag cacagctgcc ttgtctggag aagcagcatc ttgcagcccc atcatcatgc 660
cctacaaagc tgcacactct agaaattcga tggatcgacc aaaactcttt gtaacaccac 720
ctgagggctc ttctcgcagg aggatcattc atggcacagc gagctataaa aaagaaagag 780
agagagaaaa tgtactcttc ctacatctg gcacccgaag ggctgtatct ccactctaata 840
ccaaagcaag acaaccagct cgctcccgc tttggcttcc gtccaagtct ctctctcatt 900
tgccctggcac acccagaccg acatcctcct tgccaccggg ctcagtcaaa gctgctcctg 960
ctcakgtccg gccccatcc cccggcaaca tccgccctgt caagagggaa gtcaaagtgg 1020
agcctgagaa gaaagatcct gagaaggaac ctcaagaaat tgccaatgag ccctcactaa 1080
agggcagagc accttttagt aaggtagaag aagccacagt tgaagagcgg acacctgctg 1140
aaccagaant tggcctgctg ctccagccat ggccccagct ccagcctcgg cccagctyc 1200
agcctcggn cagctccag ccccggtccc caccacagcc atggtctcag ccccgctcct 1260
cactgtgaat gccagtgtct ctgttaagac ttctgcaggc accaccgacc cagaggaggc 1320
cacaaggctt ctagctgaga agaggcggct ggcccagag cagagagaaa aggaagaaaag 1380
ggagaggagg gagcaggaag agcttgaaag acaaaagaga gaggaattgg ctcaacgtgt 1440
ggctgaagag aggacgactc gccgtgagga ggagtcgagc aggttggaag ccgagcaggc 1500
ccgggagaag gaggagcagc tgcagcggca ggcggaggag cgggcgctgc gcgagtggga 1560
ggaggcagag cgcgcccaga ggcagaaaaga agaagaagct cgcgttcgtg aagaagcaga 1620
gagggtccgg caggaacgag agaagcattt ccagagagaa gagcaagagc gcctggagag 1680
aaagaagcga cttgaggaga ttatgaaaag aaccaggaga acagaagcta cagataagaa 1740
aaccagtgat cagagaaacg gtgatatagc caaggagct ctactggag gaacagaggt 1800
gtctgcactt ccattgtaca caaacgctcc gggaaatgga aagccagttg gcagcccaca 1860
tgtggttacc tcacaccagt caaaagtgc agtgagagc actcccgatt tggaaaaaca 1920
accaaataaa aatggtgtat ctgttcagaa tgaaaatttt gaagaaatta taaacttacc 1980
cattggatct aaacctcca gattagatgt caccaacagt gagagcccag aaattccttt 2040
gaatccaatt ttggcctttg atgatgaagg gacacttggt cccctgcctc aggtagatgg 2100
tgttcagaca cagcagactg cagaagttat atgagtgttt cttctgaaga accaaagctg 2160
aaatttaatg agaatttcta caattaatgg aattcctttc ctgctataaa ggagcatccc 2220
ctccaccgct tttctagagt tcttgaccat cattttgaaa agatttatta aaactagcta 2280
aagacaacag actggatagc ttttctaata atttcatcaa taggaaaaaa gaaatacgtc 2340
tcattcttca atactttaa atggcttttt ccagtgtgct ccttcttagc aatcaatatt 2400
tttctgcatt cttttaaaga caagagaatt tgggttataa aagaaatggg ctgactargc 2460
akgatttttt kggtcttaaa agcttaacat gtaaaattgg caaaaaaaaaa aaaaaggggg 2520
```

ggccgcnccta aaggaccnan g

2541

&lt;210&gt; 721

&lt;211&gt; 2171

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1996)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 721

tcganccacg	acgtccggga	cgctggactt	tgatgaagtt	gtgaatgatg	cagatatcat	60
tctggtggag	ttttatgccc	catggtgtgg	acactgcaag	aaacttgccc	ccgagtatga	120
gaaggccgcc	aaggagctca	gcaagcgctc	tcctccaatt	cccctggcaa	aggtcgacgc	180
caccgcagaa	acagacctgg	ccaagagggt	tgatgtctct	ggctatccca	ccctgaaaaat	240
tttccgcaaa	ggaaggcctt	atgactacaa	cggcccacga	gaaaaatatg	gaatcgttga	300
ttacatgac	gagcagtc	ggcctccctc	caaggagatt	ctgaccctga	agcagggtcca	360
ggagttcctg	aaggatggag	acgatgtcat	catcatcggg	gtctttaagg	gggagagtga	420
cccagcctac	cagcaatacc	aggatgccgc	taacaacctg	agagaagatt	acaaatttca	480
ccacactttc	agcacagaaa	tagcaaagtt	cttgaaagtc	tcccaggggc	agttggttgt	540
aatgcagcct	gagaaattcc	agtccaagta	tgagccccgg	agccacatga	tggacgtcca	600
gggctccacc	caggactcgg	ccatcaagga	cttcgtgctg	aagtacgccc	tgcccctggt	660
tggccaccgc	aaggtgtcaa	acgatgctaa	gcgctacacc	aggcgccccc	tgggtggtcgt	720
ctactacagt	gtggacttca	gctttgatta	cagagctgca	actcagtttt	ggcggagcaa	780
agtccatagag	gtggccaagg	acttccctga	gtacaccttt	gccattgctg	acgaagagga	840
ctatgctggg	gaggtgaagg	acctggggct	cagcgagagt	ggggaggatg	tcaatgccgc	900
catcctggac	gagagtggga	agaagttcgc	catggagcca	gaggagtgtg	actctgacac	960
cctccgcgag	tttgtcactg	ctttcaaaaa	aggaaaactg	aagccagtca	tcaaattcca	1020
gccagtggcc	agaacaaca	agggaccctg	caaggtcgtg	gtgggaaaga	cctttgactc	1080
cattgtgatg	gacccaaga	aggacgtcct	catcgagttc	tacgcgccat	ggtgcgggca	1140
ctgcaagcag	ctagagccc	tgtacaacag	cctggccaag	aagtacaagg	gccaaaagg	1200
cctggtcac	gccaagatgg	acgccactgc	caacgacgtc	cccagcgacc	gctataaggt	1260
ggagggtctc	cccaccatct	acttcgcccc	cagtggggac	aaaaagaacc	cagttaaatt	1320
tgagggtgga	gacagagatc	tggagcattt	gagcaagttt	atagaagaac	atgccacaaa	1380
actgagcagg	accaaggaag	agctttgaag	gcctgaggtc	tgcggaaggt	gggaggaggc	1440
agacgccctg	cgtggcccat	ggtcggggcg	tcacgcgcga	ggccggcaac	aaacgacagt	1500
atctcggatt	cctttttttt	tttttttaat	tttttatact	ttggtgtttc	acttcatgct	1560
ctgaatactg	aataaccatg	aatgactgaa	tagtttagtc	cagattttta	cagaggatac	1620
atctattttt	atcattatct	ggggtttgaa	aaattttttt	ttacaccttc	taatttcttt	1680
atttctcaaa	gcagataatt	cttctgtgtg	aaaatgtttt	ctttttttta	tttaaggttt	1740
aaaattcctt	ttccaaatca	tgttgatttt	gctctttgct	ttttcgttgt	ctgagaaatt	1800
gttggcgtag	atttggtctc	tggatgtgtg	ttctgattgc	ttcctgttga	gcacaaagtg	1860
agagctgcca	ctgagcagcc	ctgccagggg	tgctgtttca	ggctgggcat	cscaggcggc	1920
ctccctgcaa	accaagggtc	gggggcaaa	gggcatgatc	cagggtcccc	cagggtgggc	1980



tcagctccag ggagangcca cccacgtggc agccccacct cttgagagcc cccagtgccg 2040  
gagcagaaag gaccctggac ccagaggcag atactgcggg gtggtagaaa aggtagagta 2100  
ggctgtggca atggaataaa acacgattaa aaacgttaar aaaaaaaaaa aaaaaaaaaa 2160  
aaaaaaaaa a 2171

<210> 722  
<211> 1888  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (787)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1875)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1878)  
<223> n equals a,t,g, or c

<400> 722  
gggctgcagg aattcggcmg mggcgggggtg ggtgcaagat gccgctgccg gttcaggtgt 60  
ttaacttgca gggggccgtg gagcccatgc agatcgacgt ggacccccag gaagaccgcg 120  
agaatgcacc tgacgtcaac tacgtggtgg agaaccacag cctggatctg gaacagtacg 180  
cggccagcta cagcggcctg atgcgcacgc aacggctgca gttcattgct gatcactgcc 240  
ccacgctgcg ggtggaggcc ctgaagatgg ccctctcctt cgtgcagaga acctttaacg 300  
tggacatgta cgaggagatc caccgcaagc tctcagaggc caccagggag ctgcagaacg 360  
caccgcacgc catccctgag agcggcgtgg agcccccagc cctggacacg gcctgggtgg 420  
aggccacgcg gaagaaggcg ctgctgaagc tggagaagct ggacacagac ctgaagaact 480  
acaaggggcaa ctccatcaaa gagagcatcc ggcgcggcca cgacgacctg ggcgaccact 540  
acctggactg tggggacctc agcaacgccc tcaagtgtta tccccgggcc cgggactact 600  
gcaccagcgc caaacacgtc atcaacatgt gcctcaatgt catcaaggtc agcgtctact 660  
tgcagaattg gtctcatgtg ctacgctacg tcagcaaggc tgagtccacc ccagagattg 720  
ccgagcagcg aggagagcgt gacagccaga cccaggccat cctcaccaag ctcaagtgtg 780  
ccgcagnttg gcagagctgg ccgccaggaa gtacaagcag gctgccaaagt gcctcctgct 840  
ggcttccttt gatcactgtg acttccctga gctgctgtcc cccagcaacg tggccatcta 900  
cgggtggcctg tgccgcttgg ctacctttga ccggcaggag ctgcagcgca atgtcatctc 960  
cagcagctcc ttcaagttgt tcttgagct ggagccacag gtccgagaca tcatcttcaa 1020  
attctacgag tccaagtacg cctcatgtct caagatgctg gacgagatga aggacaacct 1080  
gtccttgac atgtatctgg ccccccattg caggaccctg tacaccaga ttcgcaaccg 1140  
tgccctcatc cagtatttca gcccctacgt gtcagccgac atgcatagga tggcggcagc 1200  
yttcaatacc acggtggccg ccctggagga cgagctgacg cagctaatac tggaggggct 1260  
gatcagtgcc cgtgtggact cacacagcaa gatcctatac gcccgggacg tggatcagcg 1320  
cagcaccacc tttgagaagt ctctgttgat gggcaaggag ttccagcgcc gcgccaaggc 1380  
catgatgctg cgggcagctg tgctccgcaa ccagatccat gtcaagtccc cgcccagaga 1440  
agggagccag ggggagctga ctccagccaa cagccagtcc cggatgagca ccaacatgtg 1500

aggggtgaac cttggcctcc aggacatctg cccccctcc ccacctccac ggacctcgga 1560  
cctccaggcg gctcagtgtc gcstgcgcc cagctaaggg gcctggccac tgggtgccac 1620  
ccagcctgtg tgccctccct ggggctgagg aggcaggcgg ctgctagtgt tggcccttcc 1680  
tggaaggaga ggcctgcagg gctcgacct gtgggtttct gtccccaggg agcagactgt 1740  
gcggcaccga ggcccagtgg caccatttcc cagacccctc ctgttcccg ctcagtcagg 1800  
tgacagacaag tgggcggtgt ccattaaaga gcagactcag cgttaaaaaa aaaaaaaaaa 1860  
aaaaaaaaaa aaccncngng ggggcccc 1888

<210> 723

<211> 980

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<400> 723

ttcaagtgat tgtccacact cagcctcctg aatagctggg attacaggtg catgctacca 60  
tgccctggcta ctttttgtgt ttttagcaga gacagggttt caccatgttg gtcagggttg 120  
tctcgaactc ctgacctcaa gtggtccgtc tggtcggcc tccaagggtg ctgggattac 180  
agggtgtgagc cactgcacct ggcctatata ggcttttttc ttaaacctat ttagtaatgt 240  
tttcccaagt ttatttttta tttttaatth tttccccaag ttattttttc tatttttttt 300  
tcatggaaaa atggggtaac ttagcagttt caatattgaa gactgaagtt taaaaaaaaat 360  
ttaaattcaa ggtactttta aaattcagtt agaaaagtag gctttaaaaa ttattagaga 420  
caagagtacc aaagcgggtgt gtgtatgtgt gtgtgtgtat gcatgcttgt ggattggaaa 480  
aactttggag actgattact tttcattata tatgtgtcac agtgaaacag cttttatgtg 540  
tcatgtaaga ttactgcttg cctctctaag gaaggctgtg actgtttaaa tagacgggca 600  
agggtggaacc ttttgaaaga tgagcttttg aatataagtt gtctgctaga tcatggtttg 660  
tattgaacta acaaggtttg cagatctgct gacttatata aagctttttg attcctacta 720  
agctttaaga tttaaaaaat gttcaatgtt gaaatttctg tggggctcta tttttgcttt 780  
ggctttctgg tgagagagtg aggaagcatt ctttccttca ctaagtttgt ctttcttctc 840  
ttctggatag attgatttta agagactaag ggaatttaca aactaaagat ttagtcatc 900  
tgggtgaaaa ggagacttta agattgttta gggctgggcg gggtgactca catctgtrrt 960  
cccagcantt tngggaggcc 980

<210> 724

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 724

cgcccggtc catcttgagg gagaccgggt tgggctgtga cgctgctgct ggggtcagaa 60  
tgtcataccc aggcataccc ccaacaggct acccaccttt ccttgatata cctcctgcag 120  
gtcaggagtc atcttttccc ccttctggtc agtatcctta tcctagtggc tttcctccaa 180

tgggaggagg tgcctaccca caagtgccaa gtagtggcta cccaggagct ggaggctacc 240  
ctgcgcctgg aggttatcca gcccctggag gctatcctgg tgccccacag ccagggggag 300  
ctccatccta tcccggagtt cctccaggcc aaggatttgg agtcccacca ggtggagcag 360  
gcttttctgg gtatccacag ccaccttcac agtcttatgg aggtgggtcca gcacaggttc 420  
cactacctgg tggcttttct ggaggacaga tgccttctca gtatcctgga ggacaacctt 480  
cttaccctag tcagcctgcc acagtgactc aggtcactca aggaactatc cgaccagctg 540  
ccaacttcga tgctataaga gatgcagaaa ttcttcgtaa ggcaatgaag ggttttggga 600  
cagatgagca ggcaattgtg gatgtggtgg ccaaccgttc caatgatcag aggcaaaaaa 660  
ttaaagcagc atttaagacc tcctatggca aggatttaac caaagatctc aaatcagagt 720  
taagtggaaa tatggaagaa ctgatcctgg ccctcttcat gcctcctacg tattacgatg 780  
cctggagctt acggaaaagca atgcagggag caggaactca ggaacgtgta ttgattgaga 840  
ttttgtgcac aagaacaaat caggaaatcc gagaaattgt cagatgttat cagtcagaat 900  
ttggacgaga ccttgaaaaag gacattaggt cagatacatc aggacatttt gaacgtttac 960  
ttgtgtccat gtgccaggga aatcgtgatg agaaccagag tataaaccac caaatggctc 1020  
aggaagatgc tcagcgtctc tatcaagctg gtgaggggag actagggacc gatgaatctt 1080  
gctttaacat gatccttgcc acaagaagct ttctcagct gagagctacc atggaggctt 1140  
attctaggat ggctaatacga gacttgtaa gcagtgtgag ccgtgagttt tccggatatg 1200  
tagaaagtgg tttgaagacc atcttgagcgt gtgccctgaa ccgccctgcc ttctttgctg 1260  
agaggctcta ctatgctatg aaagggtgctg gcacagatga ctccaccctg gtccggattg 1320  
tggtcactcg aagtgaagatt gaccttgtag aaataaaaca gatgttcgct cagatgtatc 1380  
agaagactct gggcacaatg attgcagggt acacgagtg agattaccga agacttcttc 1440  
tggctattgt gggccagtag gagggatttt ttttttttta atgaaaaaaa atttctatc 1500  
atagcttata cttcagagca atgacctgca tgcagcaata tcaaacaatca gctaaccgaa 1560  
agagctttct gtcaaggacc gtatcagggt aatgtgcttg gtttgacat gttgttattg 1620  
ccttaattct aattttattt tgttctctac atacaatcaa tgtaaagcca tatcacaatg 1680  
atacagtaat attgcaatgt ttgtaaacct tcattcttac tagtttcatt ctaatcaaga 1740  
tgtcaaattg aataaaaaatc acagcaatct ctgaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800  
aaaaaaaaaa aa 1812

&lt;210&gt; 725

&lt;211&gt; 974

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 725

cccggaacgt gatcgagget tgtttgacga ccggaacacg gttcctggct tacaccagca 60  
gcatggaagt tgtggggcct aacaccaaag gtcacccctt ctacaggggc aacgaagaca 120  
ccccatacga agcagtgcac aggcacccct atccttgacg caaggccctg gccgagtggc 180  
tggctcctgga ggccaacggg aggaaggtcc gtggggggct gccctgggtg acgtgtgccc 240  
ttcgtcccac gggcatctac ggtgaaggcc accagatcat gagggacttc taccgccagg 300  
gcctgcgcct gggaggttgg ctcttccggg ccaccccgcc ctctgtggag catggccggg 360  
tctatgtggg caatgttgcc tggatgcacg tgctggcagc ccgggagctg gagcagcggg 420  
cagccctgat gggcgccag gtatacttct gctacgatgg atcacctac aggagctacg 480  
aggatttcaa catggagtgc ctggggcccc tgcggactgc ggctgggtgg cgcccgccca 540  
ttgctgccct actggctgct ggtgttctct gctgccctca atgccctgct gcagtggctg 600  
ctgcggccac tgggtgctcta cgcacccctg ctgaaccctt acacgctggc cgtggccaac 660  
accaccttca ccgtcagcac cgacaaggct cagcgccatt tcggctatga gccctgttgc 720  
tcgtgggagg atagccggac ccgyaccatt ctctgggtac aggccgctac gggttcagcc 780  
cagtgcaggg ggggctgggg cctggaggcc cagatacagc acatccaccc aggtcccag 840  
ccctcacacc ctggacggga agggacagct gcattccaga gcaggaggca gggctctggg 900  
gccagaatgg ctgtccttgt cgtagagccc tccacatttt ctttttcttt tttgagacag 960

ggctcttgctc tggt

974

&lt;210&gt; 726

&lt;211&gt; 1508

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (9)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (309)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (360)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 726

```
gaggagatnc tgaggtgttt gagtgtcctt cccgcactca gagggcctct ctggagccag 60
ttccaggcca cccatgggcc ttggcaccgc cccctactca tggtctggcag attcgtggcc 120
ccacccatct cgaagccctt cggcccagga acccagggga agctgctgcc ctagcaatcc 180
tgacccggac gacagatatt acaacggtga ggagttctca ttccctcacc tggttcagc 240
gcacttctcc cgacctactg gggcaaaccg aaggcgcccg ggagccggtc tctctgarga 300
gcaasggang caaagtgaag cttctggggg aaactgtgca gatgccctct ctgaactggn 360
cagaagcctg cccccacctc ctcttctctg tgaactgagc tgccttagaa gggccggagg 420
aggagctgga gggcagctca gagccagagg agtggtgccc gccaatgcct gagagaagtc 480
acctgacgga gcccagctcc agtggagggt gcctgggtcac cccatcccga agggaaaccc 540
cctctcccac accttcttat ggacagcagt ccacagccac tcttacaccc tcacctcctg 600
accctcccca gcccccaact gacatgcccc atctccatca gatgcccagg arggtgcccc 660
ttggggccgag ttccctctct agtgtatccc agcccatgct gggcatccgt gaagcgaggc 720
ctgctggctt ggggtgctggc cctgcagcct caccaccact cagccccagt cctgccccta 780
gcacagccag cagtgcccc a ggcagaacct ggcaggggaa tggggagatg actccccac 840
ttcaaggacc ccgtgctcga ttccggaaga aaccacaaggc tcttccctac aggagggaga 900
acagtcctgg ggacttgccc ccaccacct tgccaccgcc agaggaagag gcgagctggg 960
ccctagagct gagggcagca ggcagcatgt cctccctgga gcgggagcgc agtggggaga 1020
ggaaagcggg ccaggccgtg cccctggcag ccagcgggt gctccacca gatgaagagg 1080
cctggctccc atacagcaga ccaagcttcc tgtcccgggg ccagggcacc agcacatgtt 1140
ccacggccgg cagcaactct tccaggggct ccagcagctc taggggctcc cggggccctg 1200
gccggagccg gagtgcgagt cagagccgga gccagagcca aaggccagga cagaaacgcc 1260
gagaggaacc aagatgacct ttgttggggc attgagaata tcatgagtgc cacggggaag 1320
gggagtaggg atgtcttttc cccccagca gtgatgagtg gggctagctg aagccattg 1380
gtttccacga tttcaattgg ctgagaaggc agagagctag ctctccctt tctttctttt 1440
tccacctgag acttgtttat aaaaaacaaa acaataaaaa gagtctgata agaaaactct 1500
gccgaatt
```

1508

&lt;210&gt; 727

<211> 2004  
<212> DNA  
<213> Homo sapiens

<400> 727

```
gagagagtgc cgtattttcgc agattggagc tgagctgtgg ctgccagaag atagcgaacg 60
ataatctggc cctgtgtttt aaaagggtaca aagaaactaa agctatgac cctaacatag 120
aaggaatgga aactgaaagt ggaaatcagg aaaagatgtt gatatatcac tacttgtgtc 180
ttttaacaaa atgaaaaaat tgactactga tgggaagtta attgccagag cattgagaag 240
ttcagctgtt gtagagcttg atttggaagg caccagaatc cggaggaaaa aacctctggg 300
ggaaagacca aaggatgagg atgaacgcac agtgtatgtg gagttacttc caaaaaatgt 360
taatcacagc tggattgaaa gagtattttg gaaatgtggc aatgttgttt atataagtat 420
accacattat aagtctactg gagatccaaa gggatttgcg tttgtggaat ttgaaacaaa 480
agaacaagca gcaaaagcaa ttgagtttct taacaacca ccagaagaag caccaagaaa 540
acctggcata tttcctaaaa cagtgaaaaa taagccatt ccagccttaa gagttgtgga 600
agagaagaaa aagaaaaaga agaagaaagg ccgaatgaaa aaggaaagaca atatccaagc 660
caaagaagaa aacatggaca caagcaacac cagcatcagt aaaatgaaaa gatccagacc 720
cacatctgag ggctctgaca ttgagtccac tgaaccccaa aagcagtgtc caaagaaaaa 780
gaaaaaacgg gacagagttg aagcatctag cttacctgaa gtcagaacag ggaagaggaa 840
gagaagcagc tctgaagatg cagaatccct agctccccga tcaaaagtaa agaaaattat 900
tcagaaagac atcattaagg aagcatcaga agcttccaag gaaaatagag atatagaaat 960
ctctactgaa gaggaaaagg atactggaga tctaaaagat agctctctct tgaaaaacaaa 1020
aaggaaacat aagaaaaaac ataaagagag acataaaatg ggagaagaag ttataccatt 1080
aagagtgtta tcaaagagcg aatggatgga tttgaaaaaa gagtatttag cgctacaaaa 1140
agctagcatg gcttctttta aaaaaacaat atcccaaata aaatcagagt cagaaatgga 1200
aacagacagt ggagtacctc aaaacactgg aatgaaaaat gaaaaaacag ccaacaggga 1260
agagtgtcgc acccaggaga aagttaatgc aacaggacca cagttcgtga gtggagtgat 1320
tgtgaagatc attagcacag agcctctacc tggcaggaaa caagtccggg atactttggc 1380
agcaatctca gaagttcttt atgttgattt gctagaaggg gatacagaat gccatgctag 1440
atttaaaact cctgaggatg ctcaagcagt aataaatgcc tatacagaaa ttaacaagaa 1500
acactgctgg aaactcgaga tcctttctgg tgatcacgaa caaagggtatt ggcagaagat 1560
tttggttgat agacaggcaa aacttaatca gcctcgggaa aagaaaagag gcactgaaaa 1620
gttaatcacc aaagctgaaa agattagact ggcaaagact caacaagcga gtaaacatat 1680
aagattttct gaatatgatt gaaaaaaaaa acagttcacc tcttaatact tcacaagata 1740
cttgagctgt tcttgggaga ttcaactttta ttatggtagc actgcataat taatgtgttt 1800
ttaattaaaa gaaatatctt tgttcctcaa cttgtaaata agactttttt ctagagacaa 1860
atatgatgta taccacaatt tttcttaaac attttatttg ttgaaattat cttagatgtc 1920
agtgtcaggt gatttagtaa ataaatgtgt tttgaacatt aaaaaaaaaa maaaaaaaaa 1980
ctcgaggggr agccccgmcc ccaa
```

2004

<210> 728  
<211> 1470  
<212> DNA  
<213> Homo sapiens

<400> 728

```
ctttcccggg gctcagtggg cgtcgcgcga aggctaaggg agtgtggcgg gcggctccgg 60
gagccaacat gcctcggtat gcgcagctgg tcatgggcc cgcgggcagc gggaagagca 120
cctactgtgc caccatggtc cagcactgtg aagccctcaa ccggtctgtc caagttgtaa 180
acctggatcc agcagcagaa cacttcaact actccgtgat ggctgacatc cgggaactga 240
tcgaggtgga tgatgtaatg gaggatgatt ctctgcgatt cgggcccaac ggaggattgg 300
```

tat t t t t t g c a t g g a g t a c t t t g c c a a t a a t t t t g a c t g g c t g g a g a a c t g t c t t g g c c a t g 360  
t a g a g g a c g a c t a t a t c c t t t t t g a t t g t c c a g g t c a g a t t g a g t t g t a c a c t c a c t g c 420  
c t g t g a t g a a a c a g c t g g t c c a g c a g c t c g a g c a g t g g g a g t t c c g a g t c t g t g g a g t t t 480  
t t c t t g t t g a t t c t c a g t t c a t g g t g g a g t c a t t c a a g t t t a t t t c t g g c a t c t t g g c a g 540  
c c c t g a g t g c c a t g a t c t c t c t a g a a a t t c g c a a g t c a a c a t c a t g a c a a a a t g g a t c 600  
t g c t g a g t a a a a a g c a a a a a a g g a a a t t g a g a a t t t t t a g a t c c a g a c a t g t a t t t c t t 660  
t a t t a g a a g a t t c t a c a a g t g a c t t a a g a a g c a a a a a a a t t c a a g a a c t g a c t a a a g c t a 720  
t a t g t g g a c t g a t t g a t g a c t a c a g c a t g g t t c g a t t t t t a c c t t a c g a t c a g t c a g a t g 780  
a a g a a g c a t g a a c a t t g t a t t g c a g c a t a t t g a t t t t g c c a t t c a a t a t g g a g a a g a c c 840  
t a g a a t t t a a a g a c c a a a g g a a c g t g a a g a t g a g t c t t c t c t a t g t t t g a c g a a t a t t 900  
t t c a a g a a t g c c a g g a t g a a t g a a g a g t t t a c t a a a a g t a a c a t c t a a a g a g c t t g t g g 960  
c c a a a c c a g c a g a a c a t t c t t c t c t t c a a a g g a t g c a a t a g t a g a a a g c t a c t t a t t t t a 1020  
a t g a a a a a a g t a a a a c t t c g t t c t t t a t c a g c c t c a t g c c t g a a t c a a a t t t t t a a t t a 1080  
t t c t g a a a c t g c t g c t g t t t a a a g t g g a a t c t t t t a g t a t a t a a c a g c a t c a c t t t t a g a 1140  
t t t t g t a a g t c a a a a t t g a a a t g a a t g a a t g c a c a t a g a t t t a t a t a t a a a t t a g c a c c t g a g c 1200  
t a a g g t t a a g g c t g g t c t a a a c t t a t t t t c a c t t t t t g t a t t a t t t t t g a g a t g c a g g a a 1260  
t t a c t g t a a c a a a a t a t g t a t g t c c g a a g g a a a a a g c t g c a a g g a t a t a t a a g a c c a 1320  
c t g c t t a t c t g t a t c t t c c c a t t t t c c t a t a t t g a a a a t g t a t a t t a t t t a t a t a a c t t a 1380  
a a a a g t a a a a a t a a c t a t g t t t t g a g a t a t g t a t g t g t a t a t a t a a a a g a a a c a a g g t t 1440  
t t t a a t g a t t c t t g g a c c t a g a t a a c a a g t 1470

<210> 729

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 729

a g c c g c g a g t c c a t t t t g g g g c t g t g c t t g g c g c g t a c c g t g c g g t c c c t g t a g t t g g a g 60  
g a c g g g c g g t c g c g c g g c c t t t c c c a c t a g c c g g a g t a g c c t c t a g t t c g t t a g t c a a a a 120  
c g t g a a a a a a a g a c c t g c t t t g c c c t g g g a a a t a g t a a c c c t g c c a a a t a c a t c a g c t t 180  
g t a g g a g a c a g a g g a t g t g a t g g a g c t g c t g a a g a a g a t c t c a c a t g c c c t a t t t g t t g 240  
t a g t c t g t t t g a t g a t c c a c g g g t t t t g c c t t g c t c c c a c a a c t t c t g c a a a a a t g c t t 300  
a g a a g g t a t c t t a g a a g g g a g t g t g c g g a t t c c t t g t g g a g a c c a g c t c a t t c a a g t g 360  
t c c t a c a t g c c g t a a g g a a a c t t c a g c t a c t g g a a t t a a t a g c c t g c a g g t t a a t t a c t c 420  
c c t g a a g g g t a t t g t g g a a a g t a t a a c a a g a t c a a g a t c t c t c c c a a a a t g c c a g t a t g 480  
c a a a g g a c a c t t g g g g c a g c c t c t c a a c a t t t t c t g c c t g a c t g a t a t g c a g c t g a t t t g 540  
t g g g a t c t g t g c t a c t c g t g g g a g c a c a c c a a c a t g t c t t c t g t t c t a t t g a a g a t g c 600  
c t a t g c t c a g g a a g g g a t g c c t t t g a g t c c c t c t t c c a g a g c t t t g a g a c c t g g c g t c g 660  
g g g a g a t g c t c t t t c t c g c t t g g a t a c c t t g g a a c t a g t a a g a g g a a a t c c c t a c a g t t 720  
a c t g a c t a a a g a t t c a g a t a a a g t g a a g g a a t t t t t t t g a g a a g t t a c a a c a c a c a c t g g a 780  
t c a a a a g a a g a a t g a a a t t c t g t c t g a c t t t g a g a c c a t g a a a c t t g c t g t t a t g c a a g c 840  
a t a t g a c c c a g a g a t c a a c a a a c t c a a c a c c a t c t t g c a g g a g a c a a c g g a t g g c c t t t a a 900  
c a t t g c t g a g g c t t t c a a a g a t g t g t c a g a a c c a t t g t a t t c t g c a a c a g a t g c a g g a 960  
g t t t a g a g a g a a a a t c a a a g t a a t c a a g g a a a c t c c t t t a c c t c c t a a t t t g c c t g c 1020  
a a g c c c t t t a a t g a a g a a c t t g a t a c c a g t c a g t g g g a a g a c a t a a a a c t a g t c g a t g t 1080  
g g a t a a a c t t t c t t t g c c t c a a g a c a c t g g c a c a t t c a t t a g c a a g a t t c c c t g g a g c t t 1140  
t t a t a a g t t a t t t t g c t a a t c c t t c t g c t t g g c c t t g t c a t t g t c t t t g t c c t a c c a t 1200  
g t t c c t a g a a t g g t c a t t a t t g a t g a c c t g g c a a c t t g g a a g g c t g t c t t t c a a a c t t 1260  
c a g t t c c t a t c t g a c t a a a a c a g c c g a t t t c a t a g a a c a a t c a g t t t t t t a c t g g g a a c a 1320  
g g t g a c a g a t g g g t t t t t c a t t t t c a a t g a a a g a t t c a a g a a t t t a c t t t g g t g g t a c t 1380  
g a a c a a t g t g c a g a a t t t g t g c a a a t a t a a a c t a t t a t a a a a t c t g t t t c a a g t a t g 1440

cagttttctt ttgttagaaa ttgttagaga atagagagtg gtaattcaga tttggtcaac 1500  
gattctagtc acatattttc ctccaaaagt attccttcca aaaataatct atacatgttc 1560  
aaattaggta gcataaagat aaaagtgaat tttagtagta taggcctgaa cctttttttg 1620  
tttaaaagag tgcttttgaa ataagcatcc accccaaatg ttggttgat ttatgctgtg 1680  
ataaaaaatag gtgagagatc atatgatcta atattgtatt gatggaagta taggtagtat 1740  
agtagtgatt gttct 1755

<210> 730

<211> 437

<212> DNA

<213> Homo sapiens

<400> 730

gttttctttt ctccttccac ctttcttttc atttctagtg agacacacgc tttggtcctg 60  
gctttcggcc cgtagtgtga gaaggagccc tgctggtgca ggtagaggt gccgcatccc 120  
ccggagctct cgaagtggag gcggtaggaa acggagggct tgccgctagc cggaggaagc 180  
tttggagccg gaagccatgg cactactacc cacaaggctg aagaccagaa aaacttattc 240  
atgggttggc aggcccttgt tggatcgaaa actgcactac caaacctata gagaaatgtg 300  
tgtgaaaaca gaaggttgtt ccaccgagat tcacatccag attggacagt ttgtgttgat 360  
tgaaggggat gatgatgaaa acccgatatg tgctaaattg cttgagttgt tcgaagatga 420  
ctctgatcct cctccgt 437

<210> 731

<211> 3663

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3648)

<223> n equals a,t,g, or c

<400> 731

tcgaccacg cgtccgcatt gagataatta ctgataggca gtctggaaag aaaagaggct 60  
ttggctttgt tacttttgat gaccatgatc ctgtggataa aatcgtattg cagaaatacc 120  
ataccatcaa tggtcataat gcagaagtaa gaaaggcttt gtctagacaa gaaatgcagg 180

aagttcagag ttctaggagt ggaagaggag gcaacttttg ctttggggat tcacgtggtg 240  
gcggtggaaa ttccggacca ggaccaggaa gtaacttttag aggaggatct gatggatatg 300  
gcagtggacg tggatttggg gatggctata atgggtatgg aggaggacct ggaggtggca 360  
atlttgagg tagccccggt tatggaggag gaagaggagg atatggtggt ggaggacctg 420  
gatatggcaa ccagggtggg ggctacggag gtggttatga caactatgga ggaggaaatt 480  
atggaagtgg aaattacaat gattttggaa attataacca gcaaccttct aactacggtc 540  
caatgaagag tggaactttt ggtggtagca ggaacatggg gggaccatat ggtggaggaa 600  
actatggtcc aggaggcagt ggaggaagtg ggggttatgg tgggaggagc cgatactgag 660  
cttcttccta ttgcatgg gcttcaactgt ataaatagga gaggatgaga gcccagagggt 720  
aacagaacag cttcaggtta tcgaaataac aatgttaagg aaactcttat ctcatgcatg 780  
cataaatatg cagtgatatg gcagaagaca ccagagcaga tgcagagagc cattttgtga 840  
atggattgga ttatttaata acattacctt actgtggagg aaggattgta aaaaaaatg 900  
cctttgagac agtttcttag ctttttaatt gttgtttctt tctagtggtc tttgtaagag 960  
tgtagaagca ttccctcttt gataatgtta aatttgtaag ttccagggtga catgtgaaac 1020  
cttttttaag atttttctca aagttttgaa aagctattag ccaggatcat ggtgtaataa 1080  
gacataacgt ttttccttta aaaaaattta agtgcgtgtg tagagttaag aagctgttgt 1140  
acatttatga ttaataaaaa taattctaaa ggaaattgtg taattataga ctttttattt 1200  
taaataagtt aaggagtggg tagtataatt aagggtccgtt gcaaagctgt tgttatattt 1260  
gtataagata aatgctggtc agatgtaagt gtgtgtctct caattcatca ggattaaatt 1320  
atgtagataa cttaagggat atctctgcaa ggagaaacac ctttttagat ctttttagatg 1380  
ctgcttcttc aatgcaagga aaggaaataa cccagcagag gtactcttca gggacacagg 1440  
tctagtacaa gagaactctt gacggctact aagttcagcc agtcttaaaa aactgtgctg 1500  
ttctacaaa actttaacta cagtagttta taaggatgcc aacgaaagct gaggggtgtag 1560  
agcaaaatag ttctaagctt cagttaaact tcttttaggt agatcttatt tacttttctt 1620  
ttcttaattt tctccctaa aagataaact aatactctta aatgggtcttt cagtatagtg 1680  
gttcttacgt agtttaacat agctataaat tgagttaaac aatttataaa ctcaagagaa 1740  
taatttttat aaaccctgtt ttccaactctg tcatttactt aaattatttt ggttggtttt 1800  
cccttttttt ccttcttttc ccacccctc cccctccatg tgaagatttg ggtgcttaac 1860  
atatcatttt tttccctgcc ggaatttttag cattgatatg aaccatggac aagtatattc 1920  
tgctgccaca aagactgtaa agtgcttcat ttcaacagct gaggcaagcc aagtgatcat 1980  
taataaagct tttcttggtt ccttcagtggt gtgtggtagt aaaatggtag gtaaaagtta 2040  
ggctgcaagt tcaataaatc atgagatttc ccatcggtac acccttggtg attcacattt 2100  
cttgatcaa acattttgag tgaactaggg gtttttatta aagacatttg ttgtatttat 2160  
ggttgtaact gtacatgctt atcaggatga gactgaaaga aggtagggca aaaatggttg 2220  
aatctatttt cagatagtag ttcatacttg agtgaagtgt cttgtctgca ttatgaagcc 2280  
tggtatgtat ccagtactaa ataggtgggt taaatgtggt aattctagtt cagtgtctta 2340  
ccctgaagag aaagttgtag gttggctgtt gaaattcatt ccttagatat gatcagtttg 2400  
attgcccggc tttattgctt ttacaggaat gtgatactca gggcttactc tatacaccia 2460  
tgagtcttct ttgatcctaa gaccaccact gaagttgttt aggttctttt ggacaaacat 2520  
gataaacttc ttcagatact ttttttttcc tttggcagga aggtgtcttg ctgcaggtaa 2580  
ctaatagaaga agtgggtcaac cacagagtct tcaagaaata agaaattctg taccatctga 2640  
aagtagttct tgttggtgcc ttcattttaa aagcactctt taaaataaaa gggaaatgtt 2700  
ttctgataaa acaaacattt agttgaggtt cttgatataa aacaattaca aaatgagtg 2760  
tgtttgtaaa acagtaacat caaattggct agagagataa atgtatcatg ttttaaatta 2820  
ggttttgta gtagacagat tacaattcta ttttaaatat aaagtttata aaataaatac 2880  
tttttgatc caaatacttg gtgtaatgtt tacacataaa atgtgtgaat cttgttctat 2940  
aaatatttg ttgtctaaaa gatcaccatc ccctaaattt ttaaaagcag tttcacaaaag 3000  
ctatgcata tttaatatta acaggtaaat gagaagagca ttgtggacat tattggctgt 3060  
cccaataaaa atgctgttca ttatgcactg tatattcagc gtttgagtac tcctaaagtt 3120  
tctggcttta cttttacgtt tagcaatact ggtggcattt tgaaaatcat ggattttaaa 3180  
ggttaaccgg ctggagtggg ccagattaag tggctttgca gaagcactga ggtttacaat 3240



atgtgctaga ttgtc aaatg tcaattagtt ttattgtggt ttacactgag taaatgaata 3300  
tcagtgttgc tttttaaatg tgtttatttg gacatttatc tgaartaaga aaacccaaaaa 3360  
gaccaggtta atttgtttct atgataatgt gttttggttt tgataatgtg aggtatctaa 3420  
caggtaagtc aaatttaaca gcaggtaaca catagaaagc agctttctgt ttgaaatagc 3480  
tgagttcgtc aattaaagac gtacaaatat cccaacttta agaaaatttt gaaggtttaa 3540  
aaatgtgtgg atgtcaaaga cgttgaactt tgaaatacat cangttgata tgcataacct 3600  
naaaatacca actcctatnc agccaagggg caagggaata ttacacanat agggggagaa 3660  
tta 3663

<210> 732

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 732

ggtgacttag gacggggcga tggcggctga gaggagctgc gcgtgcgcga acatgtaact 60  
ggtgggatct gcggcggtc ccagatgatg gtcgtcctcc tgggcgcgac gaccctagtg 120  
ctcgtcgccg tggcgccatg ggtgttgtcc gcagccgcag gtggaaaaa tctaaaatct 180  
cctcaaaaag tagaggtcga catcatagat gacaacttta tcctgaggtg gaacaggagc 240  
gatgagtctg tcgggaatgt gactttttca ttcgattatc aaaaaactgg gatggataat 300  
tgataaaaat tgtctgggtg tcagaatatt actagtacca aatgcaactt ttcttctactc 360  
aagctgaatg tttatgaaga aattaaattg cgtataagag cagaaaaaga aaacacttct 420  
tcattggtatg aggttgactc atttacacca tttcgcaaag ctgagattgg tcctccagaa 480  
gtacatttag aagctgaaga taaggcaata gtgatacaca tctctcctgg aacaaaagat 540  
agtgttatgt gggctttgga tgggttaagc tttacatata gcttasttat ctggaaaaac 600  
tcttcagggtg tagaagaaag gattgaaaat atttattcca gacataaaat ttataaactc 660  
tcaccagaga ctacttattg tctaaaagtt aaagcagcac tacttacgtc atggaaaatt 720  
ggtgtctata gtccagtaca ttgtataaag accacagttg aaaatgaact acctccacca 780  
gaaaatatag aagtcagtgt ccaaaatcag aactatgttc ttaaattgga ttatacatat 840  
gcaaacatga cttttcaagt tcagtggctc cagcctttt taaaaaggaa tcctggaaac 900  
catttgtata aatggaaaca aatacctgac tgtgaaaatg tcaaaactac ccagtgtgtc 960  
tttctcctcaa acgtttttcca aaaagggaatt taccttctcc gcgtacaagc atctgatgga 1020  
aataacacat ctttttggtc tgaagagata aagtttgata ctgaaatata agcttttctta 1080  
cttctctccag tctttaacat tagatccctt agtgattcat tccatatcta tatcgggtgct 1140  
ccaaaacagt ctggaaacac gcctgtgatc caggattatc cactgattta tgaaattatt 1200  
ttttgggaaa acacttcaaa tgctgagaga aaaattatcg agaaaaaac tgatgttaca 1260  
gttctctaatt tgaaaccact gactgtatat tgtgtgaaag ccagagcaca caccatggat 1320  
gaaaagctga ataaaagcag tgtttttagt gacgctgtat gtgagaaaac aaaaccagga 1380  
aatacctcta aaatttggtc tatagtttgga atttgtattg cattatttgc tctcccgttt 1440  
gtcattttatg ctgcgaaagt cttcttgaga tgcattcaatt atgtcttctt tccatcactt 1500  
aaaccttctt ccagtataga tgagtatttc tctgaacagc cattgaagaa tcttctgtctt 1560  
tcaacttctg aggaacaaat cgaaaaatgt ttcataattg aaaatataag cacaattgct 1620  
acagtgaag aaactaatca aactgatgaa gatcataaaa aatacagttc ccaaactagc 1680  
caagattcag grrattattc taatgaagat gaaagcgaaa gtaaaacaag tgaagaacta 1740  
cagcaggact ttgtatgacc agaaatgaac tgtgtcaagt ataagggttt tcagcaggag 1800  
ttacactggg agcctgaggt cctcaccttc ctctcagtaa ctacagagag gacgtttcc 1860  
tgttttaggga aagaaaaaac atcttcagat cataggtcct aaaaatacgg gcaagctctt 1920  
aactatttaa aatggaatta caggccgggc acgtggctca cactgtaatc cagcactttg 1980  
gaggctgagg aggcagacat gaggtcagag atcaga 2017

<210> 733

<211> 2004  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2001)  
<223> n equals a,t,g, or c

<400> 733  
cggacgcgtg ggagctgagt cgaggtggac cctttgaacg catcgcccta cagccgctga 60  
ttccccccgc atcgccctccc gtggaagccc aggcccgctt cgcagctttc tccctttgtc 120  
tcataaccat gtccaccaac gagaatgcta atacaccagc tgcccgtctt cacagattca 180  
agaacaaggg aaaagacagt acagaaatga ggcgtcgcag aatagagggtc aatgtggagc 240  
tgaggaaagc taagaaggat gaccagatgc tgaagaggag aaatgtaagc tcatttcctg 300  
atgatgctac ttctccgctg caggaaaacc gcaacaacca gggcactgta aattgggtctg 360  
ttgatgacat tgtcaaaggc ataaatagca gcaatgtgga aaatcagctc caagctactc 420  
aagctgccag gaaactactt tccagagaaa aacagccccc catagacaac ataatccggg 480  
ctggtttgat tccgaaattt gtgtccttct tgggcagaac tgattgtagt cccattcagt 540  
ttgaatctgc ttgggcactc actaacattg cttctgggac atcagaacaa accaaggctg 600  
tggtagatgg aggtgccatc ccagcattca tttctctgtt ggcattctccc catgctcaca 660  
tcagtgaaca agctgtctgg gctctaggaa acattgcagg tgatgggtca gtgttccgag 720  
acttggttat taagtacggg gcagttgacc cactgttggc tctccttgca gttcctgata 780  
tgtcatcttt agcatgtggc tacttacgta atcttacctg gacactttct aatctttgcc 840  
gcaacaagaa tcctgcaccc ccgatagatg ctggtgagca gattcttctt accttagttc 900  
ggctcctgca tcatgatgat ccagaagtrt tagcagatac ctgctgggct atttcctacc 960  
ttactgatgg tccaaatgaa cgaattggca tgggtggtgaa aacaggagtt gtgcccac 1020  
ttgtgaagct tctaggagct tctgaattgc caattgtgac tcctgcccta agagccatag 1080  
ggaatattgt cactgggtaca gatgaacaga cttaggttgt gattgatgca ggagcactcg 1140  
ccgtctttcc cagcctgctc accaacccca aaactaacat tcagaaggaa gctacgtgga 1200  
caatgtcaaa catcacagcc ggccgccagg accagatata gcaagttgtg aatcatggat 1260  
tagtcccatt ccttgtcagt gttctctcta aggcagattt taagacacaa aaggaagctg 1320  
tgtgggccgt gaccaactat accagtgggt gaacagttga acagattgtg taccttggtc 1380  
actgtggcat aatagaaccg ttgatgaacc tcttaactgc aaaagatacc aagattattc 1440  
tggttatcct ggatgccatt tcaaatatct ttcaggctgc tgagaaacta ggtgaaactg 1500  
agaaacttag tataatgatt gaagaatgtg gaggcttaga caaaattgaa gctctacaaa 1560  
accatgaaaa tgagtctgtg tataaggctt cgtaagctt aattgagaag tatttctctg 1620  
tagaggaaga ggaagatcaa aacgttgtac cagaaactac ctctgaaggc tacactttcc 1680  
aagttcagga tggggctcct gggaccctta acttttagat catgtagctg agacataaat 1740  
ttgttggtga ctacgtttgg tattttgtct tattgtttct ctactaagaa ctctttctta 1800  
aatgtggttt gttactgtag cactttttac actgaaacta tacttgaaca gttccaactg 1860  
tacatacata ctgtatgaag cttgtcctct gactaggttt ctaatttcta tgtggaattt 1920  
cctatcttgc agcatcctgt aaataaacat tcaagtcac cttttcttg acttcaaaaa 1980  
aaaaaaaaaa aaaaaagggg nggc 2004

<210> 734  
<211> 1128  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc feature  
<222> (1105)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<400> 734  
ctcggagccg ttgggtcggt tcctgctatt ccggcgccctc cactccgtcc cccgcggggtc 60  
tgctctgtgt gccatggacg gcattgtccc agatatagcc gttggtacaa agcggggatc 120  
tgacgagctt ttctctactt gtgtcactaa cggaccgttt atcatgagca gcaactcggc 180  
ttctgcagca aacggaaatg acagcaagaa gttcaaagggt gacagccgaa gtgcaggcgt 240  
ccctctctaga gtgatccaca tccggaagct ccccatcgac gtcacggagg gggaagtcac 300  
ctccctgggg ctgccctttg ggaagggtcac caacctcctg atgctgaagg ggaaaaacca 360  
ggccttcacg gagatgaaca cggaggaggc tgccaacacc atggtgaact actacacctc 420  
ggtgaccctt gtgctgcgcg gccagcccat ctacatccag ttctccaacc acaaggagct 480  
gaagaccgac agctctccca accaggcgcg ggcccaggcg gccctgcagg cgggtgaactc 540  
ggtccagtcg gggaaacctg ccttggtgc ctcggcgcg gccgtggacg cagggatggc 600  
gatggccggg cagagccccg tgctcaggat catcgtggag aacctcttct accctgtgac 660  
cctggatgtg ctgcaccaga tttctccaa gttcggcaca gtgttgaaga tcatcacctt 720  
caccaagaac aaccagttcc aggccctgct gcagtatgcg gaccccgtag gcgcccagca 780  
cgccaagctg tcgctggacg ggcagaacat ctacaacgcc tgctgcacgc tgcgcacatcga 840  
cttttccaag ctcaccagcc tcaacgtcaa gtacaacaat gacaagagcc gtgactacac 900  
acgcccagac ctgccttccg gggacagcca gccctcgctg gaccagacca tggccgcggc 960  
cttcggtgca cctggtataa tctcagcctc tccgtatgca ggagctgggt tccytcccam 1020  
ctttgccatt cctcaagctg caggctttcc gttccgaacg tccacgsgc cctggccccct 1080  
ggcgcgaccc gagccgcgct ggctnctgat cgctcanggc accgctgt 1128

<210> 735  
<211> 772  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (661)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (693)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (699)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 735

```
ttttttttgt gcagtcgctg ggaaggaagg agacgcctaa accgcggcac tgcccgggtt 60
gagcgtacca aacctgcccc ccggctttgt agccccgatt ctctgtgttt tgctcccgtc 120
tccgacgaga gaggcggcga cgggtggcgtc tgcgacggga gacagcgcgt cggagcgaga 180
gagcgtgctg cctgcccggc cccaacagc ggaggcgccg ccgccatcgg tcgtcaccag 240
accggagccg cagcctcccc agcccggcca tccgtgcccc gctcccagat ctctatcctt 300
ttgggacctat gcgcggagga ggctttgggg accgggaccg ggatcgtgac cgtggaggat 360
ttggagcaag aggtggtggt ggctttcccc cgaagaaatt tggtaatcct ggggagcgtt 420
tgcgtaaaaa aaagtgggat ttgagtggag tccccaaagt tgagaaaaat ttttatgtgg 480
aacatccgga agtagcaagg ctgacacctat atgaggttga tgagctacgc cgaaagaagg 540
agattacagt gaggggggga gatgtttgtc ctaaaccctg gtttgccctc catcatgcta 600
acttcccaca atatgtaatg gatgtgttga tggactcacg cactttacag gataacatca 660
ngggtagact ttgacttgga gaaaaccaag atncttgcn gttggctcct ggtggtggcc 720
ccccatccca gctgtggcat ngcacacaca aggacacctt ttctaagtta tg 772
```

<210> 736

<211> 1099

<212> DNA

<213> Homo sapiens

<400> 736

```
ggcacgaggg aatgtttcct ccatttaaag tgagatgttc tgggctggat aaaaaagcca 60
aatacatttt attgatggac attatagctg ctgatgactg tcgttataaa ttccacaatt 120
ctcgggtgat ggtggctggt aakgccgacc ccgaaatgcc aaagaggatg tacattcacc 180
cggacagccc cgctactggg gaacagtgga tgtccaaagt cgctactttc caaaaactga 240
aactaccaa caacatttca gacaaacatg gatttacttt ggctttcccc agtgatcacg 300
ctacgtggca ggggaattat agttttggta ctgagactat attgaaactc atgcacaaat 360
accagccccg gttccacatt gtaagagcca atgacatctt gaaactccct tatagtacat 420
ttcggacata cttgttcccc gaaactgaat tcatcgctgt gactgcatac cagaatgata 480
agataaccca gttaaaaata gacaacaacc cttttgcaaa aggtttcccg gacactggaa 540
atggccgaag agaaaaaaga aaacagctca ccctgcagtc catgaggggtg tttgatgaaa 600
gacacaaaaa ggagaatggg acctctgatg agtcctccag tgaacaagca gctttcaact 660
gsttcgcca ggcttcttct ccagccgctt cactgtagg gacatcgaa ctaaaagatt 720
tatgtcccag cgaggggtgag agcgacgccg aggccgagag caaagaggag catggccccg 780
aggcctgcga cgcggccaag atctccacca ccacgtcgga ggagccctgc cgtgacaagg 840
gcagccccgc ggtcaaggct cacttttctg ctgctgagcg gccccgggac agcgggcggc 900
tggaacaaag gtcgcccgcac tcacgccata gccccgccac catctcgctc agcactcgcg 960
gcctgggcgc ggaggagcgc aggagccccg ttcgcgaggg cacagcgccg gccaaaggtg 1020
aagaggcgcg cgcgctcccc ggcaaggagg ctttcgcgcc gctcacggtg cagacggacg 1080
cgcccgcaag cttattccc 1099
```

<210> 737

<211> 3219

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (3212)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3215)  
<223> n equals a,t,g, or c

<400> 737

```
catatggttt tgcgtccatt cctccttcgt cgaattaagg ctgatgttga aaagagtttg 60
cctccaaaga aggaagtaaa aatctatgtg ggcctcagca aaatgcaaag ggaatggtat 120
actcggatat taatgaagga tatagatata ctcaactcag caggcaagat ggacaaaatg 180
aggttattga acatcctaata gcagttgagw raatgttgta atcatccata tctctttgat 240
ggagcagaac ctggtccacc ttatacaaca gatatgcatc tagtaaccaa cagtggcaaa 300
atggtggttt tagacaagct gctccctaag ttaaaagaac aaggttcacg agtactaatc 360
ttcagtcaaa tgacaagggt attggacatt ttggaagatt attgcatgtg gagaaattat 420
gagtactgca gggttgatgg tcagacacccc catgatgaga gacaagactc catcaatgca 480
tacaatgaac caaacagcac aaagtttggt ttcatgttaa gcacgcgtgc tgggtggtctt 540
ggcatcaatc ttgcgactgc tgatgtagta attttgatg attctgattg gaatcccaa 600
gtagatcttc aggttatgga ccgagcacat agaattgggc agactaagac agtcagagtg 660
ttccgcttta taactgataa cactgtagaa gaaagaatag tagaacgtgc tgagatgaaa 720
ctcagactgg attcaatagt cattcaacaa gggaggcttg tggatcagaa tctgaacaaa 780
attgggaaag atgaaatgct tcaaatgatt agacatggag caacacatgt gtttgcttca 840
aaggaaagtg agatcactga tgaagatata gatggatttt tggaaagagg tgcaaaagaag 900
actgcagaga tgaatgaaaa gctctccaag atgggcgaaa gttcacttag aaactttaca 960
atggatacag agtcaagtgt ttataacttc gaaggagaag actatagaga aaaacaaaag 1020
attgcattca cagagtggat tgaaccacct aaacgagaaa gaaaagccaa ctatgccgtt 1080
gatgcatatt tcagggaagc tcttcgtgtt agtgaaccta aagcacccaa ggctcctcga 1140
cctccaaaac aacccaatgt tcaggatttc cagttctttc ctccacgttt atttgaatta 1200
ctggaaaaag aaattctgtt ttacagaaaa actattgggt acaagggtacc tcgaaatcct 1260
gagctgccta acgcagcaca ggcacaaaaa gaagaacagc ttaaaattga tgaagctgaa 1320
tcccttaatg atgaagagtt agaggaaaaa gagaagcttc taacacaggg atttaccaat 1380
tggaataaga gagattttta ccagtttatc aaagctaata agaagtgggg tcgtgatgat 1440
attgaaaata tagcaagaga agtagaaggc aaaactccag aagaagtcac tgaatattca 1500
gctgtgtttt gggaaagggt caacgagctc caggacatag agaagattat ggctcagatt 1560
gaaaggggag aggcgagaat tcaaagaaga ataagcatca agaaagcact tgacacaaag 1620
attggacggt acaaagcacc ttttcatcag ctgagaatat catatggtac taacaaagga 1680
aaaaactata ctgaagaaga agatcggttt ctgatttgta tgcttcacaa acttggtatt 1740
gacaaagaaa atgtttatga tgaattgcga cagtgtattc gcaactctcc tcagttcaga 1800
tttgactggt ttcttaagtc cagaactgca atggagctcc agaggagatg taatacctta 1860
attactttga ttgaaagaga aaacatggaa ctagaagaaa aggagaaggc agagaaaaag 1920
aaacgaggac caaagccttc aacacagaaa cgtaaaatgg atggcgacc tgatggtcga 1980
ggaagaaaaa agaagctgaa actatgaata tgtttttggt tcataatcac taactttaaa 2040
ccagtagttc tttaatttac gggctctcat aagatgtact gtacaatgct caattgttat 2100
gtcattttaa gacatcaggt tcatctgttt actgagctag aaacatagta tgtagtttca 2160
ctttttttaa tgcaacagct gtgctgaaat ttttttatca ttaacacttg aagtaataaa 2220
ataggcttca tttattacta agtgtttcat ttgatttatt tttctattgt agttccattt 2280
gtgaagattg tgactttttg tttattagct ataatttcta cacttgtaag gcttamaaac 2340
aagttaaaaa gaaaattgca aataacattt gtccctttca gtcttcacct agttgtgtaa 2400
ttattttaat tcactttgcc tttgcagaaa tttgggtatt ttctttgtag tgctattgag 2460
```

```
tctcatctgg aaagattata taaattgcat tctccttgc t atgtgggta gaatgggara 2520
agaaggcaag acaaagtata cttaaattct atgcatattt ctgttatgct ttctgttttt 2580
tttagttgat tctgaaatga atatgcccta ttcttttgaa agaatggcct tttagttgta 2640
tagccaaaga catttagtat tttccggttc cttaaggtat tactgtacca ttttgtaaaa 2700
ggaatattat tattattatt tttaattatt tggtaaarat tttgtcatat gaccttctga 2760
agcagccaca acttagataa tgtcagaact aaggtgattt tttttttttt aattttgaaa 2820
gcccagccaa aatgaggtgt gaatttgta tactgttaca ttgaaattgg taacaaaata 2880
tatccctcc catttgact tttagggtaa atgaaaattt tattgtattt taaagtagtt 2940
tctaagtgtt agcaagactg actataattc cagtttctgt tttctatgga cagacctgat 3000
aaactggaga ccctaaagca ggaataccca aattatagtg tcaggatttt agctgtacca 3060
gaggccttta tgtgctacac ataatttgta taaaatttta tatgtgcaga ttgggtacat 3120
aaacagttct ccatttttct aagggaatgc aataaatgta gcatcgtgaa taaatataac 3180
ttttataatc cgtaaaaaaa aaaaaaaagt gngangggg 3219
```

&lt;210&gt; 738

&lt;211&gt; 849

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 738

```
ggggacggaa gcgccccctg ccmraraagg gctggagccg ggccggggcg atgtggagcg 60
cgggccgcgg cggggctgcc tggccggtgc tgttggggct gctgctggcg ctgttagtgc 120
cgggcggtgg tgccgccaag accggtgcgg agctcgtgac ctgcgggtcg gtgctgaagc 180
tgctcaatac gcaccaccgc gtgcggtgc actcgcacga catcaaatac ggatccggca 240
gcggccagca atcggtgacc ggcgtagagg cgtcggacga cgccaatagc tactggcgga 300
tccgcggcgg ctcggagggc ggggtgccgc gcgggtcccc ggtgcgctgc gggcaggcgg 360
tgaggctcac gcatgtgctt acgggcaaga acctgcacac gcaccacttc ccgtcgccgc 420
tgtccaacaa ccaggaggtg agtgccttg ggaagacgg cgagggcgac gacctggacc 480
tatggacagt gcgctgctct ggacagcact gggagcgtga ggctgctgtg cgcttccagc 540
atgtgggcac ctctgtgttc ctgtcagtca cgggtgagca gtatggaagc cccatccgtg 600
ggcagcatga ggtccacggc atgcccagt ccaacacgca caatacgtgg aaggccatgg 660
aaggcatctt catcaagcct agtgtggagc cctctgcagg tcacgatgaa ctctgagtgt 720
gtggatggat ggggtggatgg aggggtggcag gtggggcgtc tgcagggcca ctcttggcag 780
agactttggg tttgtagggg tcctcaagtg ctttgtgat taaagaatgt tggctctatga 840
aaaaaagtc 849
```

&lt;210&gt; 739

&lt;211&gt; 2069

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2046)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 739

```
gcgccgactg agcctctaaa gcgacttcag ctctgccccca ccaacaccac cgctccgggg 60
gaggggctta atgctgggga agggatgtct taaaagagga gaagctttaa attagacgat 120
cggagaaggc tgagggaatt gctatgaarg ggccgggagct gaagtgtaga ggactccttt 180
agacagcaga aagggaagc cggtgagaag ttcccttcaa actccacctg cctcctctcc 240
```

aattcaaact ccactccctt ctccaaaagt taaaaggaaa gccaaagtgtg ccacgctccc 300  
ctgttcctac tcaataaata cttcttctac tccgccaccg ggaaaacaga aaaaaaaaaac 360  
taatttcctt cccaatatta ggacttagaa aagctctagg tcccgcaayt tgaatttttag 420  
cctaggggaa tcaaaaatagt aggagcatta ctcttggttc ctttttcaaa atcccacacc 480  
tcaccccttc tgcgacgcca tgtctacca cttttagt ttcaaggaca ggtgcgtgtc 540  
catcctgtgt tgcaaatctt gtaaacaaagt gctcagctct aggggaatga aggcgtgttt 600  
gctggctgat actgaaatag accttttctc tacagacatc ctcctacca acgcagtggg 660  
cttcaactgga agatgctatt tcacaaaaat ctgcaaatgt aaactgaagg acatcgcatg 720  
tttaaaatgt gggaacattg tagkttatca tgtgattgtt ccatgtagtt cctgtcttct 780  
ttcctgcaac aacrgacact tctggatgtt tcacagccag gcagtttatg atattaacag 840  
actagactcc acaggtgtaa acgtcctact tyggggcaac tggccagaga tagaagagag 900  
tacagatgaa gatgtgttaa atatctcagc agaggagtgt attagataaa tgggaattatg 960  
atatatatga tatacaaaact ttttctatt taaaaatata ttaatggatc aactttaaaa 1020  
ttgttagttg ccagtgatct ttttgga acaaaaatgg ggcatttgtt gatttattta 1080  
ttttctgtct ctaattagtt acctcagttt gattgaagcc agtggagtgt tgcttttcct 1140  
ctacttctac ttctctccc ccacctttt ctgccagtg taggtgtatt cttaaattca 1200  
gacgggaaga ttctttcaca tatcactcag ttacctcca atctggggga gtttttctta 1260  
caacttgata ccagatacca ttaattttac attcctgaat aaaggcctag taccacgca 1320  
tatttcaacc atgcatatat caagttcaac ygagttttta taggggatta aaaaaacaag 1380  
ctgttaggtt tccatgggca ctggttctca taggttctat tgggtgataac tgctttaaca 1440  
tggagcaaga gtttgtgaat caggaaatag aataaattaa aattttaa atatagagga 1500  
atcctcttga ttgctcagca tgatgttaga taaatgagtt tgtcagaaaa tatcagtata 1560  
cgctgtttac caatgttatt tatttacatt cttctaaagc cattatggat attgtattat 1620  
gagagctaaa cctaaataag ttatcctgtt ccctaggacc ttctctgtaa atagtgaatt 1680  
ttagacgagt agtctgtcct aaatcttaaa tagaaaaaaa aactaaagcg atttgcttaa 1740  
gccattgtac attataaaga gctgttttgt tttgctttgc tttgctttgt tttgtttttt 1800  
taaagctgca ttcagagcca caaaggaata ggaaagtagg gtagtggttg attctggttt 1860  
tatgtaactc taaaataaat gtatctcttt aatatctcag ttgtagggat tttgtcaata 1920  
ccaaagcaga ctgagttgtg gttttgtaaa taaagttttt tctaaaaatg accattcttc 1980  
ctttaatttt ttgttatgcc cacatattgt atgtaaaaat ataaataaat agtacttaaa 2040  
gtatanaaaa aaaaaaaaaa aaaaagggtt 2069

<210> 740

<211> 1567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1548)

<223> n equals a,t,g, or c

<400> 740

aaaaccgaga ggaagcagga agggcggagt ctctatttg agtttgtggc gcgcgaggcc 60  
ctgcagtccg ggttggcgct tgggtactgg ctgggtccga tgctgggtac gctgcgcgcc 120  
atggagggcg aggcagtgga agacgaccag ctgctgcaga agctcagggc cagtcgccgc 180

```
cgcttccaga ggcgcgatgca gcggctgata gagaagtaca accagccctt cgaggacacc 240
ccggtggtgc aaatggccac gctgacctac gagacgccac agggattgag aatttggggt 300
ggaagactaa taaaggaaag aaacaaagga gagatccagg actcctccat gaagcccgcg 360
gacaggacag atggctccgt gcaagctgca gcctgggggtc ctgagcttcc ctcgcaccgc 420
acagtcctgg gagccgattc aaaaagcggg gaggtcgatg ccacgtcaga ccaggaagag 480
tcagttgctt gggccttagc acctgcagtg cctcaaagcc ctttgaaaaa tgaattaaga 540
aggaaatact tgacccaagt ggatatactg ctacaaggtg cagagtattt tgagtgtgca 600
ggtaacagag ctggaaggga tgtacgtgtg actccgctgc cttcactggc ctcacctgcc 660
gtgcctgccc ccggatactg cagtcgtatc tccggaaaaga gtcctgggtga cccagcgaaa 720
ccagcttcat ctcccagaga atgggatcct ttgcatecct cctccacaga catggcctta 780
gtacctagaa atgacagcct ctccctacaa gagaccagta gcagcagctt cttaaagcagc 840
cagccctttg aagatgatga catttgcaat gtgaccatca gtgacctgta cgcaggggatg 900
ctgcactcca tgagccggct gttgagcaca aagccatcaa gcatcatctc caccaaaacg 960
ttsatcatgc aaaactggaa ctccaggagg aggcmergat ataagagcrg gatgaacaaa 1020
acatatgtga aaggagccag acgttctcag aggagctcca aggagaactt cataccctgc 1080
tctgagcctg tgaaaaggac aggggcatta agagattgca agaacgtatt agatgtttct 1140
tgccgtaaga caggtttaa attggaaaaa gcttttcttg aagtcaacag accccaaatc 1200
cataagttag atccaagttg gaaggagcgc aaagtgcac cctcgaagta ttcttccttg 1260
atttacttcg actccagtgc aacatataat cttgatgagg aaaatagatt taggacatta 1320
aatgggttaa tttctcctgt aaaaatagtt tccagaccaa caatacgaca gggccatgga 1380
gagaaccgtc agagggagat tgaaatccga tttgatcagc ttcacgga atattgcctg 1440
agtcccagga accagctcgc ccggatgtgc ctcccggact cctggggccat gaacatgtac 1500
agaggggggtc ctgcgaagtc ctggtggcct tnaggcttaa aaaccgnaa gctgagttaa 1560
ctttcag 1567
```

<210> 741

<211> 2829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1728)

<223> n equals a,t,g, or c

<400> 741

```
gacgtgggg gcagaccaca tgtcagcagt ggggtgtcgt tagtaatata ttgtgggtca 60
ttgttatctt cttntttttg tttacttgta tttcctaaat ttttctacaa tgaacttgta 120
ttaataagaa aaaaccataa aatttactgt ttttaaaaag ctgctctaag taatcagaca 180
gtcaaaagag caggaatcag ctctccagga ggctcttttg tctggggccg aggggatgag 240
ggtgggtcct gaagacgtct gagtcccttg ttacaggagg gtgttcattg tgctctcctc 300
```



acagctggga gaacagctga agcagctggt gcctgcaagc ggcctcacag tcatggatct 360  
ggaagctgag ggcacgtggt tgcgggtcag ccctttgatg accgcagcag ttttaggaac 420  
tcggggagag gatgtggatc agctcgtagc ctgcatagaa agcaaactgc cagtgtctgtg 480  
ctgtacgctc cagttgcgtg aagagttcaa gcaggaagtg gaagcaacag caggctctcct 540  
atatgttgat gaccctaact ggtctggaat aggggttgtc aggtatgaac atgctaataga 600  
tgataagagc agtttgaaat cagatcccgga aggggaaaaac atccatgctg gactcctgaa 660  
gaagttaaata gaactggaat ctgacctaac ctttaaaata ggccctgagt ataagagcat 720  
gaagagctgc ctttatgtcg gcatggcgag cgacaacgtc gatgctgctg agctcgtgga 780  
gaccattgctg gccacagccc gggagataga ggagaactcg aggccttctg aaaacatgac 840  
agaagtgggt cggaaaggca ttcaggaagc tcaagtggag ctgcagaagg caagtgaaga 900  
acggcttctg gaagaggggg tgttgccgga gatccctgta gtgggctccg tgctgaattg 960  
gttttctccg gtccaggctt tacagaaggg aagaactttt aacttgacag caggctctct 1020  
ggagtccaca gaacccatat atgtctacaa agcacaaggt gcaggagtca cgctgcctcc 1080  
aacgccctcg ggcagtcgca ccaagcagag gcttccaggc cagaagcctt ttaaaaggctc 1140  
cctgcgaggt tcagatgctt tgagtgcagc cagctcagtc agtcacattg aagacttaga 1200  
aaaggtggag cgcctatcca gtgggccgga gcagatcacc ctcgaggcca gcagcactga 1260  
gggacaccca ggggctccca gccctcagca caccgaccag accgaggcct tccagaaagg 1320  
ggtcccacac ccagaagatg accactcaca ggtagaagga ccggagagct taagatgaga 1380  
ctcattgtgt ggtttgagac tgtactgagt attgtttcag ggaagatgaa gttctatttg 1440  
aatgtgaac tgtgccacat actaatataa attactgttg tttgtgcttc actgggattt 1500  
tggcacaaat atgtgcctga aangtaggct ttctaggagg ggagtcagct tgtctaactt 1560  
catgtacatg tagaaccaca tgtttgctgt cctactacga cttttcccta agttaccata 1620  
aacacatttt attcacaaaa aacacttcga atttcaagtg tctaccagta gcacccttgc 1680  
tctttctaaa cataagccta agtatatgag gttgcccgtg gcaacttntt tggtaaaaca 1740  
gcttttcatt agcactctcc aggttctctg caacacttca cagaggcgag actggctgta 1800  
tcctttgctg tcggtcttta gtacgatcaa gttgcaatat acagtgggac tgctagactt 1860  
gaaggagagc agtgattgtg ggattgtaaa taagagcatc agaagccctc ccagctactt 1920  
gctcttcgtg gagacttagt aaggactgtg tctacttgag ctgtggcaag gctgctgtct 1980  
gggactgtcc tctgccacaa ggccatttct cccattatat accgtttgta aagagaaact 2040  
gtaaagtctc ctccctgacca tatattttta aatactggca aagcttttaa aattggcaca 2100  
caagtacaga ctgtgctcat ttctgtttag tatctgaaaa cctgatagat gctaccctta 2160  
agagcttgct cttccgtgtg ctacgtagca cccacctggg taaaatctga aaacaagtac 2220  
ccctttgacc tgtctccac tgaagcttct actgccctgg cagctcgcct gggcccaact 2280  
cagaaacagg agccagcaga gcactctctc acgctgatcc agccgggcac cctgcttaag 2340  
tcagtagaag ctgctgggca ctgcccgttc ctacttttcc gaagtactgc gtcactttgt 2400  
cgtaagtaat ggcctctgtg ccttcttaat ccagcagtc aagcttttggg agacctgaaa 2460  
atgggaaaat tcacactggg tttctggact gtagtattgg aagccttagt tatagtatat 2520  
taagcctata attatactct gatttgatgg gatttttgac atttacactt gtcaaaatgc 2580  
agggggtttt ttttggtgca gatgattaaa cagtcttccc tatttggtgc aatgaagtat 2640  
agcagataaa atgggggagg ggtaaattat caccttcaag aaaattacat gtttttatat 2700  
atatttgga ttgttaaatt ggttttgctg aaacatttca cccttgagat attatttgaa 2760  
tggtggtttc aataaagggt cttgaaattg ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820  
aaaaaaaaa 2829

<210> 742

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<400> 742

```
ggagacctcc tgacctttgg ccctgaagcn accgaggaac cagccccctcg gagttctact 60
tcatgttcca acaagtacga gtcaagcctc aggactttgc tgccattacc atcccacggg 120
ctaggggaga agcccgggtt ggggctgggt tccggcctat gctgccctcc caggggggctc 180
cacagcggcc tctcagcacc ttctccccctg cccccaaggc cacactgac ckaaactcca 240
taggcagcct cagcaagctc cggccccagc ccctcacctt ctccccctagt tgggggtggac 300
caaagagcct gcctgttccc gccccacctg gggaaatggg gaccacgcct tctgctccac 360
cmcaacgcaa tcggaggaaa tctgttcacc gagtgttggc ggaactggat gatgagagt 420
agcctcctga gaacccgcca ccggtcctta tggagcccan gaagaaactc cgtgtagaca 480
aagccccact gactcccaact ggaaatcgac gtggccgctc tcggaagtac ccagtgaagc 540
ctcccatggc tccccctgca gttgggggag gggagccctg tgcagctcct tgttgctgcc 600
tgccccagga agagacagtg gcctgggttc agtgtgatgg ctgtgacgtc tggttccatg 660
tggcctgtgk kggctgcagc atccaggctg ccaggagggc cgacttcyka tgcccagggg 720
gccgggctgg cattcagacc taaggctccr ygccaaaggc ccatcggaca cacctgcccc 780
tgagtagaca cagcagcgag caaataggct tgataaatam ccccttccc ttccctcccc 840
aagaggaatg actacaggga agaaggatgg attgatgtgg actcattcag gccttgagca 900
gaccctggtg gccaaagacag aagaga                                     926
```

<210> 743

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 743

```
aggggctgca gctgccaaac ccaataccct ctattttaacc cctactctgt tttacaagag 60
aaataaaaaga agtatcagca gagctcaggt gctaacacct gttgagggct gacctacaaa 120
actctgccta caaaactctc ttagacaggt gaatatgcca ctagaagtta gggtgctggg 180
agacctgggg gtccctgcgg gaggggtgatg gtttctttac caccacacag gagatttcag 240
tggcaaggca tgccctgcagt gggctttggg ccatgcatct tccaagtcca taggtcttca 300
cctgggtggc agtgagaaaa agtagaaagt aatgagcctc ctgtgtctct ggaagggttct 360
agggwtaggg tagagggaag aagagaacaa acaagcctgg cttgtgctga agtgtggtag 420
gcactaccct gtttgctgta agagaaaaca aagcacctgt tagtagggag gcttttagggg 480
gaagccccgt cttgggggca tttctgggca gattgtgaat tggaggaatc tctttaactg 540
aagtactctg gctggaccct gcccttgtgt gaccatgtct cctattgcac cagcatttng 600
aattccatgg ctcaagaggg ttctggtacc atttattcac agactgtatc ctcgagagag 660
ctgctatata tgggagtgtg ccagccaact ccttttccag tgtctgtaag tcacctcatt 720
aaagtataat tagctgtctc ctctgggaga tcctaccca tcagacaagg gcagtgaagc 780
caagcagtgc cagaggccct cagaaaggga ttagggtaga tgattgcaac tgaaacacaa 840
```

tcttcttttct ttgccaggggt attttggggg ttttgcccca aaatataccc tgggcatagc 900  
attactgcag tcttgatgt ctaccccaaa cttccacacc atccttcgac ccacagctgc 960  
acctttatatt atttattttg ctccagcctg ggggacagag tgagacttcg tctcggg 1017

<210> 744

<211> 361

<212> DNA

<213> Homo sapiens

<400> 744

ggtggccgct ggagtttgtg tggccgcccgc cgcgggaacg cgagcccgtt aatttttcaa 60  
cggagaaaagg cgaggttttc gggctctgca gaggtagagt tagcaagtgt ccggctccag 120  
ccggcatgga ggatccacag agtaaagagc ctgccggcga ggccgtggct ctgcgctgc 180  
tggagtcgcc gcggccggag ggcggggagg agccgccgcg tcccagtccc gaggaactc 240  
aacagtgtaa atttgatggc caggagacaa aaggatccaa gttcattacc tccagtgcga 300  
gtgacttcag tgaccgggtt tacaaagaga ttgccattac gaatggctgt attaatagaa 360  
t 361

<210> 745

<211> 1936

<212> DNA

<213> Homo sapiens

<400> 745

gggttttttac cccttctaaa ataagtttta ttccatctgc aaattgctgc aatattatag 60  
taatcagaaa ctacataagg aatgttatat aggcttgtca gttcccatTT ttcttgacaa 120  
caataaatac cactttttaa aatgacacat atttaaacac ttagaaaata aagttaaacac 180  
ttactgaagt gctagtacta aactgtgcta gtactaaaag aaaacagggtt ggaacatata 240  
tatagcctag catttataac agaattgttg aacgysygya aatgattttt tttttttttt 300  
gcaaaggaaa aaattgatac tggaaaagat tgttgtgcat agttattagt catttgtaac 360  
cttgcttaag tatttcttag tccaacatag atattttctt tctcctgacc atgtatttta 420  
aaatatagtc tatttcttga ctttgaactt aaagctttaa tcataawttc tcatgtatac 480  
atcgttcttc tgatggtaag ctggatttga aggtagtggg ttcagtgttt cttaagttgg 540  
tagctgaggg tatcaggcat cagttcatgc aataatacaa gaaaaaaaaat ctttgcttg 600  
ccaagaggta gaggatgtg catttatctg ttttctgttc tgtaagtcta gaccttcaa 660  
ccatttgtaa actaaccctt gggaaatttg aaattacctg ataacttaag actctgtgat 720  
ctctggaatc accatatgtt tcttttttgt gtagatatta ataacattac tcttgacta 780  
tagtgtgcac tctgaaatgt actcagtga aatttgtttt gagtttcatt aatgctattt 840  
caccagttag acataattac ttctaccgat gtgaatgata cggatgccgg cagagcttcc 900  
agatctttca gactcaactg ctagggtcaat tagtttgtca taataaaact tggcagattc 960  
tacaagtcta ttatgacaaa ccaggaacta attctataat ggaaaactat ccattctgaa 1020  
taataggtat gtaattattt gctgctgctg ctgtgctctg taaattctga atatgacatt 1080  
taaactctgt gcctactaaa ggtatcttct ggagtttttg ggaggagaga aactggaaaa 1140  
ttaaattgta tttttgccag aagactctta cttgcatgtg tctcagggtc ttcagttttt 1200  
ctataagttt ccatatccaa agttcagaat tcatgtgaaa tacttctttg gggcaaaagt 1260  
ccttcattcc tggattttat tggattggaa atctgtagca agatgctgtt taaaattacc 1320  
atattgtttt tttatcttat acttagctct ctggctattg aacttccttt tcttgtttga 1380  
agttagcttc aaatttgctc ctatgctaaa ttacctgtaa atattctgga taggaactac 1440  
ttgaaatagt aatttgttaa aagatatgac aaaatgaaaa tgcttaaaact acagaaattt 1500  
aaaaatgcca taacaatctt gcgagactaa ctttaaaata tactttaaat gattattatg 1560  
attttggtgg taacgatccc ccacacacaa ccactatgaa gaaataatgc cgcattttttc 1620

ccccattgta ccaaaaagat aaaaaaatgg taaacactga tcaaggtatt ttgtattgtc 1680  
aaggcatgca tattctaaag aattaaatgc taacttaaca gcaactggctt tctggctggt 1740  
caactatatg aaaccttggt cattcctccg agtactgtaa tggtcacact tgtacaatct 1800  
tccctgtcat gactttaagt tctacttttc attaacatg gcctgatatt agttcttaga 1860  
gcttcttggt gcaaaaataa aatgatttaa ttctgaaaaa aaaaaaaaaa aaaaaaaaaa 1920  
ctcgagacta gttctc 1936

<210> 746

<211> 1619

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1568)

<223> n equals a,t,g, or c

<400> 746

ggcggaggag agccgtgcgc acggcgatg tggggccgtg tgcagaccgc cgtgtggcgc 60  
aggcaaggac cctcaaaata aacagcctct accttgccag ccgtcttccc caggcctgcg 120  
tccgagtctc cgccgctgcg ggcccgctcc gacgcggaag atctgactgc agccatgagc 180  
agcaatgagt gcttcaagtg tggacgatct ggccactggg cccgggaatg tcctactggg 240  
ggaggccgtg gtcgtggaat gagaagccgt ggcagaggtt tccagtttgt ttctctgtct 300  
cttccagata ttgtttatcg ctgtggtgag tctggtcatc ttgccaagga ttgtgatctt 360  
caggaggatg gcctgctata actgcggtag aggtggccac attgccaagg actgcaagga 420  
gcccagaga gagcgagagc aatgctgcta caactgtggc aaaccaggcc atctggctcg 480  
tgactgcgac catgcagatg agcagaaatg ctattcttgt ggagaattcg gacacattca 540  
aaaagactgc accaaagtga agtgctatag gtgtggtgaa actggtcatg tagccatcaa 600  
ctgcagcaag acaagtgaag tcaactgtta ccgctgtggc gagttagggc accttgacg 660  
ggaatgcaca attgaggcta cagcctaatt attttccctt gtcgcccctc ctttttctga 720  
ttgatggttg tattattttc tctgaatcct ctactggtc caaagggttg cagatagagg 780  
caactcccag gccagtgcgc tttacttgcc gtgtaaaagg aggaaagggg tggaaaaaaa 840  
ccgactttct gcattttaact acaaaaaaag tttatgttta gtttggtaga ggtgttatgt 900  
ataatgcttt gttaaagaac cccctttccg tgccactggt gaatagggat tgatgaatgg 960  
gaagagttga gtcagaccag taagcccgtc ctgggttcct tgaacatgtt cccatgtagg 1020  
aggtaaaacc aattctggaa gtgtctatga acttccataa ataactttaa ttttagtata 1080  
atgatggtct tggattgtct gacctcagta gctattaaat aacatcaagt aacatctgta 1140  
tcaggcccta catagaacat acagttgagt gggagttaac aaaaagataa acatgcgtgt 1200  
taatggctgt tcgagagaaa tcggaataaa agcctaaaca ggaacaactt catcacagt 1260  
ttgatgttgg acacatagat ggtgatggca aaggtttaga acacattatt ttcaaagact 1320  
aatctaaaaa cccagagtaa acatcaatgc tcagagttag cataatttgg agctattcag 1380

gaattgcaga gaaatgcatt ttcacagaaa tcaagatggt atttttgtat actatatcac 1440  
ttagacaact gtgtttcatt tgctgtaatc agttttttaa agtcagatgg aaagagcaac 1500  
tgaagtccta gaaaatagaa atgtaatttt aaactattcc aataaagctg gaggaggaag 1560  
ggganannaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1619

<210> 747

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 747

aattcggcac sgcgcaggag gacggagccc taaccgcaac ccgcgcgcgc ccgngccgat 60  
ttgatttgta tccactgtca ccagcactgc tcacttagga ctttctggat ccggacccag 120  
gcagcgcaca ctggactctt gaggaagaag gagactctaa ttttgattc cttggtggag 180  
gaaaataaaa cactctggct ttgccgccaa cgatgcaagt gtgactgctg gcgtcttcat 240  
gagctccaga ggtcacagca cgctaccaag gactctcatg gcccctcgga tgatttccga 300  
gggagacata ggaggcattg ctcaaatac ctcctctcta ttcttgggca gaggcagtgt 360  
ggcctccaat cggcacctyc tccaggctcg tgggcatcac ctgcattgtt aatgstacca 420  
ttgagatccc taatttcaac tggccccaat ttgagtatgt taaagtgcct tggtgnacat 480  
gccccattgg nt 492

<210> 748

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 748

cccgcgcgcca ccgggcagta gttgcggagg tcagccccgc ctacttcttc tttccctcgg 60  
agcgggcggc ggcgttggcg gcttgtgcag caatggccaa gatcaaggct cgagatcttc 120  
gcgggaagaa gaaggaggag ctgctgaaac agctggacga cctgaagggt gagctgtccc 180  
agctgcgcgt cgccaaagt acaggcggtg cggcctccaa gctctctaag atccgagtcg 240

```

tccggaatc cattgcccgt gttctcacag ttattaacca gactcagaaa gaaaacctca 300
ggaaattcta caagggaag aagtacaagc ccctggacct gcggcctaag aagacacgtg 360
ccatgcgccg ccggctcaac aagcacgagg agaacctgaa gaccaagaag cagcagcgga 420
aggagcggct gtacccgctg cggaagtacg cgggtcaaggc ctgagggggcg cattgtcaat 480
aaagcacagc tggctgagaa aaaaaaaaaa aaaagggggg gccctttaag agggatccct 540
tcgaaggggc ccaaagctta mgcgtkgcat tscgaacgtc aataggttct cttccctnat 600
tag 603

```

&lt;210&gt; 749

&lt;211&gt; 2045

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 749

```

ggcacgagga ggacgtgggg cttccgtgaa tgcgcagtgg gtgcgtcggc caccaccttt 60
tggccaggtt agggaggggg cgacgctgag atgggggcgg cggcggcgga agcggatcgc 120
actctctttg tgggcaacct tgaaacgaaa gtgaccgagg agctcctttt cgagcttttc 180
caccaggctg ggccagtaat aaaggtgaaa attccaaaag ataaggatgg taaaccaaag 240
cagtttgctg ttgtgaattt caaacatgaa gtgtctgttc cttatgcaat gaatctactt 300
aatggaatca aactttatgg aaggcctatc aaaattcaat ttagatcagg aagtagtcat 360
gccccacaag atgtcagttt gtcatatccc caacatcatg ttggaaattc aagccctacc 420
tccacatctc ctagcgcagg tacgaaagga ctatggataa catgacttca tcagcacaga 480
taattcagag atctttctct tctccagaaa attttcagag acaagcagtg atgaacagtg 540
ctttgagaca aatgtcatat ggtggaaaat ttggttcttc acctctggat caatcaggat 600
tttcaccatc agttcaatca cacagtcata gtttcaatca gtcttcaagc tcccagtggc 660
gccaaggtac accatcatca cagcgtaaaag tcagaatgaa ttcttatccc tacctagcag 720
atagacatta tagccgggaa cagcgttaca ctgatcatgg gtctgaccat cattacagag 780
gaaagagaga tgatttcttc tatgaagaca ggaatcatga tgactggagc catgactatg 840
ataacagaag agacagtagt agagatggaa aatggcgctc atctcgacac taacacatgt 900
taaaaggaca ttgtttttat aggggtcattt tagggccctt gactaagttg atatggaaat 960
atthtgttga aaaactgtac agagcagctt tacaagttgt cacatttctt tataaatttt 1020
tttaaagcta cagtttaata caaaatgaat tgcggtttta ttacattaat aacctttcac 1080
ctcagggttt tatgaagagg aaagggtttt atgcmaaaga aagtgttaca attcctaata 1140
atthtagaca ctttaggagg ggggtgaagt gtatgataaa gcagatatth taattattht 1200
ttatctthtt gtattgcaag aaatttcttg ctagtgaatc aagaaaacmt ccaggttgac 1260
agtctaaaat ggctmctggg atthtagtta attcaaaaat gaaactthtt agtgattcac 1320
thtactaaca thctatttgr gaagscwtat tggtaaagtt tggggataaa ggcattgctt 1380
aactthttat ataatttagg tataaattct gtgacatgct cttgagctth acctagttg 1440
aacatacatg ttagatttta cacatactgt thcattctaa aatttagaaa ttgttcatta 1500
aatcccattt gaggtataag tcaactcagga agttaaaata thcttacacg tatatthttt 1560
cattaaaaat acagtgttag cataaatccc cthtttcagga agaacaaaaa tgtcagtgca 1620
tagttagata aaatggtaaa atgtthttact gaaagcatac thttttggaa aatagattca 1680
tgaagcctth aagtgtgtgt thtgtcagtc aaacgttaaa aactthtaaca thttcaaagt 1740
gcccagactg tgtacaaaga cacatgtaat ggagattgta caggttgtth thttgtttga 1800
acctthgaaa gagthtaatc ttaacgttht ctaattthta aattthtaaa thttgtthta 1860
caaaagcttg tattaagata ctgtthttcat thcattacag aattgtthtat aaaagttcat 1920
thgttgaaaa ataaggatcc thtttaatac cacagcattt gtactgtthc thtttaatat 1980
actgaaaaaa taaaagggaag ggkgtgtgtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaa 2045

```

&lt;210&gt; 750

<211> 1144  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1127)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1130)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1137)  
<223> n equals a,t,g, or c

<400> 750  
ctcaagtctt ccactgcaga tacattggag gcttcaccca cgttttcttt cccttttagtt 60  
tgtttgctgt ctggatggcc aatgagcctg tctccttttc tgtggccaat ctgaaggcct 120  
tcgttggaag tggtgtttac agtaatcctt accaagataa catactgtcc tccagaatac 180  
caagtattag gtgacactag ctcaagctgt tgtcttcaga gcagttacca agaagctcgg 240  
tgcacagggt ttctctgggt cttacaggaa ccacctactc tttcagtttt ctggcccagg 300  
agtggggtaa atcctttagt tagtgcattt gaacttgata cctgtgcatt cagttctgtg 360  
aatactgccc tttttggcgg ggtttcctca tctccccagc ctgaactgct caactctaaa 420  
cccaaattag tgtcagccga aagkaggttt caagatagtc ctgtcagtat ttgtggtgac 480  
cttcagatta gacagtcttc atttccagcc agtggagtcc tggctccaga gccatctctg 540  
agactcgtac tactggatgt tttaatatca gatcattacc caccatatgc ctcccacagg 600  
ccaagggaaa acagacacca gaacttgggt tgagggcact accagactga catggccagt 660  
acagaggaga actagggaag gaatgatgtt ttgcacctta ttgaaaagaa aatttttaagt 720  
gcatacataa tagttaagag cttttattgt gacaggagaa cttttttcca tatgcgtgca 780  
tactctctgt aattccagtg taaaatattg tacttgcact agctttttta aacaaatatt 840  
aaaaaatgga agaattcata ttctattttc taatcgtggt gtgtctattt gtaggataca 900  
ctcgagtctg tttattgaat tttatgggtcc ctttctttga tgggtgcttgc aggttttcta 960  
ggtagaaatt atttcattat tataataaaa caatgtttga ttcaaaattt gaacaaaatt 1020  
gttttaataa aattgtctgt ataccagtac aagtttattg tttcagtata ctcgtactaa 1080  
taaaaataca gtgccaatg caaaaaaaaa aaaaaanaaa ngccccncgn ggggggnccg 1140  
gaac

1144

<210> 751  
<211> 1598  
<212> DNA  
<213> Homo sapiens

<400> 751  
aattcccggg tccacccacg acgtccgggt acggccgaaa agatggcggt cttggcacct 60  
ctaattgctc tcgtgtattc ggtgccgcga ctttcacgat ggctcgccca accttactac 120  
cttctgtcgg ccctgctctc tgctgccttc ctactcgtga ggaaactgcc gccgctctgc 180  
cacggtctgc ccacccaacg cgaagacggt aaccgcgtgt actttgactg gagagaagtg 240  
gagatcctga tgtttctcag tgccattgtg atgatgaaga accgcagatc catgttcctg 300  
atgacgtgca aacccccctt atatatgggc cctgagtata tcaagtactt caatgataaa 360  
accattgatg aggaactaga acgggacaag agggtcactt ggattgtgga gttctttgcc 420  
aattggtcta atgactgcca atcatttgcc cctatctatg ctgacctctc ccttaaatac 480  
aactgtacag ggctaaattt tgggaagggt gatgttgga gctatactga tgtagtacg 540  
cggtaaaaag tgagcacatc acccctcacc aagcaactcc ctaccctgat cctgttccaa 600  
ggtggcaagg aggcaatgcg gcggccacag attgacaaga aaggacgggc tgtctcatgg 660  
accttctctg aggagaatgt gatccgagaa tttaaacttaa atgagctata ccagcggggc 720  
aagaaactat caaaggctgg agacaatata cctgaggagc agcctgtggc ttcaaccccc 780  
accacagtgt cagatgggga aaacaagaag gataaataag atcctcactt tggcagtgtc 840  
tcctctcctg tcaattccag gctctttcca taaccacaag cctgaggctg cagcctttta 900  
tttatgtttt ccctttgggt gtgactgggt ggggcagcat gcagcttctg attttaaga 960  
ggcatctagg gaattgtcag gcacctaca ggaaggcctg ccatgctgtg gccaaactgtt 1020  
tactggagc aagaaagaga tctcatagga cggaggggga aatgggtttc ctccaagctt 1080  
gggtyagtgt gttaactgct tatcagctat tcagacatct ccatggtttc tccatgaaac 1140  
tctgtggttt catcattcct tcttagttga cctgcacagc ttggttagac ctagatttaa 1200  
ccctaaggta agatgctggg gtatagaacg ctaagaattt tcccccaagg actcttgctt 1260  
ccttaagccc ttctggcttc gtttatggtc ttcattaaaa gtataagcct aactttgtcg 1320  
ctagtcctaa ggagaaacct ttaaccacaa agtttttatc attgaagaca atattgaaca 1380  
acccccatt ttgtggggat tgagaagggt tgaatagagg cttgagactt tcctttgtgt 1440  
ggtaggactt ggaggagaaa tcccctggac tttcactaac cctctgacat actccccaca 1500  
cccagttgat ggctttccgt aataaaaaaag ttgggatttc cttttgaaaa aaaaaaaaaa 1560  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 1598

<210> 752  
<211> 1485  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (243)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1382)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1436)

<223> n equals a,t,g, or c

<400> 752

```
ctttcccagag cctctctccc tggccaggcc ccagggtctcg cagccaggga tggagatggg 60
gggaggggga acctagagtt ctttgtagtg cctccctcag actctaacac actcagcctg 120
gccccctcct cctattgcaa cccccctccc cgctcctccc ggccaggcca gctcagtctt 180
cccagcccc attccacgtg gaccagccag ggcgggggta gggaaagagg acaggaagag 240
cangagccag ttctgggagg cggggggaag gaggttggtg gcgactccct cgctcgccct 300
cactgccggc ggtcccaact ccaggcacca tgttccccgc gggccccccc agccacagcc 360
tctctcggct cccccctgctg cagttgctgc tactggtggt gcaggccgtg gggagggggc 420
tggggccgcg cagcccggcc gggggccccc tgggaagatgt ggtcatcgag aggtaccaca 480
tccccagggc ctgtccccgg gaagtgcaga tgggggattt tgtgcgtac cactacaacg 540
gcacttttga agatggcaag aagtttgatt caagctatga tcgcaacacc ttggtggcca 600
tcgtggtggg tgtggggcgc ctcatcactg gcattggacc aggcctcatg ggcattgtgtg 660
tcaacgagcg gcgacgcctc attgtgcctc cccacctggg ctatgggagc atcggcctgg 720
cggggctcat tccaccggat gccaccctct acttcgatgt ggttctgctg gatgtgtgga 780
acaaggaaga caccgtgcag gtgagcacat tgctgcgcc gccccactgc ccccgcatgg 840
tccaggacgg cgactttgtc cgctaccact acaatggcac cctgctggac ggcacctcct 900
tcgacaccag ctacagtaag ggcggcactt atgacaccta cgtcggctct ggttggctga 960
tcaaggcat ggaccagggg ctgctgggca tgtgtcctgg agagagaagg aagattatca 1020
tccctccatt cctggcctat ggcgagaaag gctatggtga ggggtgggaa ggacacaagg 1080
ggaaattccg cagaagaggg aaaaaccagg cctccacata cagttgctca ggttgatata 1140
tgcacgaggg catccaacca aggactcaag gtgggatgaa atctaccctt ggtgctacta 1200
agaaggggtg ctttggccgg gcgtgggtgg tcacgcttgt aatcccagca ctttgggaag 1260
ccaaggcggg aggatcacga ggtcaggaga tcgagaccac ggtgaaaccc cgtctctact 1320
aaaaatacaa aaaaattagc ccgggcgtgg tgggggcgcc ttagtccca gctactcgga 1380
anaggcttar gcaggaatat gacgtgaacc cgggaagcgg agcttgcant gagccnaaat 1440
cggccacttg acttcaacct gggtgacaaa cgagactttt cttaa 1485
```

<210> 753

<211> 1756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1756)

<223> n equals a,t,g, or c

<400> 753

```

ttccagccga kcaactggagc tgacttccgc aatccccgatg gaataaatct agcaccacctg 60
atggtgtgcc cacactttgc tgcgaaacg aagccagaca acagatttcc atcagcagga 120
tgtgggggct caaggttctg ctgctacctg tgggtgagctt tgctctgtac cctgaggaga 180
tactggacac ccactgggag ctatggaaga agaccacag gaagcaatat aacaacaagg 240
tgatgaaat ctctcggcgt ttaatttggg aaaaaaacct gaagtatatt tccatccata 300
accttgaggc ttctcttggt gtccatacat atgaactggc tatgaaccac ctgggggaca 360
tgaccagtga agaggtggtt cagaagatga ctggactcaa agtaccacctg tctcattccc 420
gcagtaatga caccctttat atcccagaat gggaaaggtag agccccagac tctgtcgact 480
atcgaaagaa aggatatgtt actcctgtca aaaatcaggg tcagtgtggt tcctgttggg 540
cttttagctc tgtgggtgcc ctggagggcc aactcaagaa gaaaactggc aaactcttaa 600
atctgagtc ccagaaccta gtggattgtg tgtctgagaa tgatggctgt ggagggggct 660
acatgaccaa tgccttccaa tatgtgcaga agaaccggg tattgactct gaagatgcct 720
acccatatgt gggacaggaa gagagttgta tgtacaaccc aacaggcaag gcagctaaat 780
gcagagggtg cagagagatc cccgagggga atgagaaagc cctgaagagg gcagtggccc 840
gagtgggacc tgtctctgtg gccattgatg caagcctgac ctcttccag ttttacagca 900
aaggtgtgta ttatgatgaa agctgcaata gcgataatct gaaccatgcg gttttggcag 960
tgggatatgg aatccagaag ggaaacaagc actggataat taaaaacagc tggggagaaa 1020
actggggaaa caaaggatat atcctcatgg ctcgaaataa gaacaacgcc tgtggcattg 1080
ccaacctggc cagcttcccc aagatgtgac tccagccagc caaatccatc ctgctcttcc 1140
atttcttcca cgatggtgca gtgtaacgat gcactttgga agggagttgg tgtgctattt 1200
ttgaagcaga tgtggtgata ctgagattgt ctgttcagtt tccccatttg tttgtgcttc 1260
aatgatcct tcctactttg ctctctcca cccatgacct ttttactgtt ggccatcagg 1320
actttccctg acagctgtgt actcttaggc taagagatgt gactacagcc tgcccctgac 1380
tgtgttgtcc cagggtgat gctgtacagg tacaggctgg agattttcac ataggttaga 1440
ttctcattca cgggactagt tagctttaag caccctagag gactagggtg atctgacttc 1500
tcacttccca agttcccttc tatatcctca aggtagaaat gtctatgttt tctactccaa 1560
ttcataaatc tattcataag tctttggtac aagtttacat gataaaaaga aatgtgattt 1620
gtcttccctt ctttgcactt ttgaaataaa gtatttatct cctgtctaca gtttaataaa 1680
tagcatctag tacacattca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaan

```

1756

&lt;210&gt; 754

&lt;211&gt; 1795

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

```

acccacgcgt ccgcccggga ccacgcgtct catccatggc ttccgcggac tcgcccgggs 60
tggcagatgg cggcgggtgcc gggggcacyt tccagcccta cctagacacc ttgcccagg 120
agctgcagca gacggaccca acgctgttgt cagtagtggg ggcggttctt gcggtgctgc 180
tgacgctagt yttctggaag ttaatccgga gcagaaggag cagtcagaga gctgttcttc 240
ttgttggcct ttgtgattcc gggaaaacgt tgctctttgt caggttgtta acaggccttt 300
atagagacac tcagacgtcc attactgaca gctgtgctgt atacagagtc aacaataaca 360
ggggcaatag tctgaccttg attgaccttc ccggccatga gagtttgagg cttcagttct 420
tagagcgggt taagtcttca gccagggtta ttgtgtttgt tgtggatagt gcagcattcc 480
agcgagaggt gaaagatgtg gctgagtttc tgtatcaagt cctcattgac agtatgggtc 540
tgaagaatac accatcattc ttaatagcct gcaataagca agatattgca atggcaaat 600
cagcaaagtt aattcaacag cagctggaga aagaactcaa caccttacga gttaccctgt 660
ctgctgcccc cagcacactg gacagttcca gcaactgccc tgctcagctg gggaagaaag 720
gcaaagagtt tgaattctca cagttgcccc tcaaagtggg gttcctggag tgcagtgcca 780
aggggtggaag aggggacgtg ggctctgctg acatccagga cttggagaaa tggctggcta 840

```

```
aaattgcctg agaggcagct ctaaagcaca agacctggat gtgtgacaca cagtttttga 900
aaaaggctctg tggtagtctg gagttgatga ggaaggggta caagatgtgg ttagaaacat 960
ttctttgttc tggaaacaaa gtactgttga aaccagcttg gaatTTTTTT tttttttttt 1020
tttaagtcca gttctccctt atggctgcct ttcaaacaag taccttttat ctgatgcctg 1080
tatcttccct ttgttaaggt gtaacttgat gtaggggtcaa ggTTTTTgtg acaacaggca 1140
gactccacac agagaggata tgatgagaat atggccatca cctgaaaagt tttcttatct 1200
tctgtgcttt tggtccttg aaacaaatcc gcctatgtat gaagctagtt gatttccagt 1260
tgactatatt ccagttgcct ctgaagttca caggcaatac attgtctagt cctttgcgaa 1320
tttctctgat ttgtgggcac agttatgaag tttccccaca tgtgaagaca ggtacaaaat 1380
agcagagcca agcagacagt gggctctattc ttcattagct cagtgacttg tccacactcg 1440
tcttagcact tacgtttcaa aagcttgtca caaaccttg gagtcattcc cagataatag 1500
aactggaaat gataaatccc ctaatgccaa gggctctagtg tgttcttagt ggttatactg 1560
ggaagtgtgt ggagatttag gtgctgctct gctgctctgg atggctgaag gctcctgggc 1620
catcttcattg tgctgcttga agagctccta ttttgtactc ctggctagaa tgctgtggaa 1680
caaatacaaa gtgaaaaaag ttctctgtag atttctgaag tgcattattca ttgatgccaa 1740
gaaaaaaaaa aagttgcctt tttgaaaaaa aaaaaaaaaa aaaaaa 1795
```

&lt;210&gt; 755

&lt;211&gt; 1280

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 755

```
ctggagtga cacaagcccc tttgcaaagt ctctgggtca ttccagaggg gaggctgacc 60
tttttgattc tggggacatt ttttccacgg gcactggatc tcagtcctgt gagagaacaa 120
aacccaaggc aaagatagca gagaatcctg ccaaccacc agtgggtggt aaagcaaaga 180
gccccatgtt tcctgctcta ggcgaggcca gcagtgatga tgatctcttt cagtctgcta 240
aaccaaaacc agcaaagaaa acaaatccct ttctctcctt ggaagatgag gatgacctct 300
ttacagatca gaaagtcaag aagaatgaga caaaatccar tagtcagcag gatgtcatat 360
taacaacaca agatatTTTT gaggatgata tatttgctac ggaagcaatt aaaccctctc 420
agaaaaccag agagaaggag aaaacattgg aatctaattt atttgatgat aacattgata 480
tctttgctga cttaactgta aaacaaaaag aaaagtccaa aaagaaagtg gaagccaagt 540
ctatatTTTga tgatgatatg gatgacatct tctcctctgg tatccaggct aagacaacca 600
aaccaaaaag ccgatctgca caggccgcac ctgaaccaag atttgaacac aagggtgtcca 660
acatctttga tgatcccttg aatgcctttg gaggccagta gagcacacag ggtatccaca 720
kgttaccctg cagctacatt gttgagttag tgatgatrrt gtatatgcts atgggtcttaa 780
ctggattaca aaaagcaaat actagaacag ctagctcatc kttyacccaa tgtacttrgt 840
atTTTTctgc actggtttta tcatgcttaa tactacaaaa caaaaataaa tatttcacag 900
tggttggttt gttttgtttt taaaccacag tttgatttag ttagccttgc tggggccata 960
atatgcttca ggggtgtgtaa aagaagaaat ctctttgtgg ctttcatggg caggggaatcy 1020
cagagatagc aaatgccacc tgaccagaag tctttgttat atggatggga accctaactt 1080
agggcytggg caggggaaag agaaagaagr tgagagatta tacttcatga gtcttagcaa 1140
tatgggagca ggttttcact gaattctgag ggtgcctctg catgtcctcc aaggcaaagt 1200
ttggcaaaact gtggccccc cactgtcata ttttgTTaat aaaattttat tggaacacaa 1260
mmamaaaaaa aaaaaattac 1280
```

&lt;210&gt; 756

&lt;211&gt; 3665

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 756

```
gaggaggctg ggtgaggcgc tgagacggtt tggcgggtgag tcctggggcca ggcgcactga 60
aaggccccga acccgggaaa cgtcaaaaaca aacagaagga cttgggattc cggagcagtc 120
gccccatcgc ctgctcctgc agttgcggac gccaccgacc ccgccgccgg aggactgggc 180
actgaaaggc ctctaggcct aggcgcggcc cgcggagcca gacgtgttgc tgccgtgagt 240
aaaacgagcg cctctccgc actcgtttac aaattaaaat ggaggaaatt tcgttggcca 300
acctggatac taacaagcta gaggccatcg ctcaggagat ttacgtagac ctgatatagg 360
attcttgttt gggattctgc tttgaggtgc accgggcagt caagtgtggc tacttctacc 420
tggagttcgc agagactggt agcgtgaagg attttggcat tcagccagtg gaagacaaag 480
gagcgtgccg cctcccgcct tgcctccctc ccggagaacc tgggaatggg cctgatcagc 540
agctccagcg ctcacctccg gaattccagt agctgcaaaa tgagagtctg aaagtggcca 600
ggacaataac atagactggt cctgtggctt cgaggagtaa gctaagtaga aaaaagtaga 660
aaaatcagac aaaagtttta attccccctt gaagatccta gcatttaaaa acccaaagtg 720
gataatttag gaatcctttt tttaaagtgt attacctgga gcaagctctg aagccctggg 780
caggaggagc tgcacagcct gcggggccatg cagtgcctgt tgatctctaa acacaccagg 840
atgtgcgcaa gatcctgtag tgcccccagt gcacaggtga gcagttgtgt gccagcata 900
taaaattttt ggttcctcag cctttctgtc tgcctgatgt caagggttc ctggacagtt 960
tggacgttac agttcgtcag gccgtgatca gtggcctgca gtgggactgc tcctttgata 1020
tctgaacctc tgttatgggc ttctctgaga caagtaaagtg tcaggtgcaa gatctggata 1080
ctaacagttt cagtttggga aatccaagaa aaagaattat caagtttgat agggaaagtc 1140
tgtagccttg actccagcaa gaagaaaagg tcaaaaccac gtgtttccca aaagtccaga 1200
ctacaatgat tcagctgact tgaggacaag gcctagcatt tggctgagca gagccctctt 1260
ccttgccctc caacctgggt gcataaggctt ggcaaatgga caacttggtt gtccagacag 1320
gttgaggatt cggttatgat cccctgggga ggtagcaggg acctctgcaa ctatgcatga 1380
tttctcaaac ttcaagattc atgtctggat gtattatgct gtggatataa gtttagtagg 1440
gcggtcattt cctactctrm gttactggtt acctagccag tccatgggtg tgacttggtc 1500
cttaagtcag gtcactatct gcctcccacc ctgggggcag gactgaagta tagaagagca 1560
tcatggctgt gcaggaggct gtggtttgaa aactgagccc agagggcact ttcagctgcc 1620
ctcaataatg tgaatggatt agtgctagga gccaaaggagc aggactggat tatctcatct 1680
gactgtgtgc agaatcctgt tgaatgtccc tgttttcttt ggttgggcag tcagagctct 1740
gctatggtga acatccagac tgtcaccact ttctgtctgc cgctcgaaag ggatagtcct 1800
ttccactcgg tcccctttgg atcttcttga caacaggagc agtcctttta ttgttagaag 1860
tcagagaaaag acctccagaa tctcctgact ttagggaatg gtatagggga agatgggaag 1920
taagagtcac atatcaaaac taccctccac tttattccct gaggcagggt ttatgaagta 1980
taaaggggtg ggagcccga ggtgagcggg aacgggtgctg ctttatttga aatgttttct 2040
tacctcattc tgtgccccag tagggggtcc agcctcatct gtctggcttg gccctgtgtt 2100
cctcctgtcc cctgtccac tgcctatctg gtgccccagg tgcctgttc cactccagct 2160
gtcacattga acagtttcaa ttcagctctt aatgtctctg ctccgaagc ctgcccatt 2220
tctttttct tggcctctgt ttttttttt tctttctttt tcccttgttt ttgtagaaga 2280
ctcagaggag aatctttctt atggctccct ctggttagat tggaaattgga agagaactta 2340
attttttgta tttaaaatgc agtgtcatgc ctataagcat ttctcctata taggactgct 2400
ttgctagtgt gccctcttgc tgtgtcttac ttcataagga gttgtatctt cccacctcca 2460
tttcaatact gccggttagg acctaaagtag aagagcagta aaggctgatt gacacacagg 2520
gggatggagt tggtccttgt ccattctctc acccttgctg tgcattgtatc aatccttctc 2580
ccagaaggta ctatttagac tgtatagact gatttagatt acatacttta gaggattaag 2640
gaaaccatag agtttgggcc ttggaactgt tactgccttg tcctagagtt gtcctgatca 2700
```

ggcttggggc ctagttacag attagtctta aagaattgca ttaacttaaa aaaaatcaaa 2760  
ccttggaag agctaaaata atttgagat atctttgccc ttgacttgta gacgacatct 2820  
aagaggatga agaaaggaga gtctaagtga gactctggcc tacttcctaa caatgtcttg 2880  
gaagtgggat gatggtaaag gagaaaggcc acagtccaat ccctctgcct tcagataggg 2940  
aactcaaata ctgaaattac tgttttcttt ctggcctttt ctcttggtta gaggaggaag 3000  
cggaaagtag ttttgagtaa tactttgttc atattacccc ccttttggtt tttgtttctg 3060  
gccccctctac caatagggca gtagcctcct gccctggatg ggtataaggt gggcttggtc 3120  
caacaggtkc ccagaggga cactactcct tctggggaga gaatgctccc taccatatag 3180  
ttgacagtgg ttaggaactc tccctttccc tacttacctt ccttttaata gcagaattcc 3240  
tatttttccc ttgattatgt gtattgatca ccctgcaatc ctattatgta tctgagtgtg 3300  
tgtgtgtgtg tatgtgtgtg ttatggggga aggggggggt tctttaaata ttctgtggtt 3360  
tgtggccttt tcttccatac attagtcccc accatcgcat gcccaggac cactgcctgg 3420  
cattatcgca tgctgggac atcgggggag ggtagtgaag ctcaccactg tcctttgttt 3480  
tgagagatttt tatttttgca taagtagtcc atcctataca gatagctgat taactgtatt 3540  
cccccttccc ctatggctgc tgggtgtaaa aaactgcac tccccattgg taaacagtaa 3600  
taaaatttta aaaaatgaaa aaaaaaaaaa aaaaagaaaa aaaaaagaaa aaanaaaaaa 3660  
agaaa 3665

<210> 757

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1071)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1201)

<223> n equals a,t,g, or c

<400> 757

gccggcgccc gccgccacg tcgcaggaaa ccccggtggg gacgcggccc ccgcagccac 60  
gggcaccgcg gccgccgct ctttagccac cgccgcggc agcgaagacg cggagaaaaa 120  
agttctcgcc accaaagtcc ttggcactgt caaatggttc aacgtcagaa atggatatgg 180  
atttataaat cgaaatgaca ccaaagaaga tgtatttgta catcagactg ccatcaagaa 240  
gaataaccca cggaaatatc tgcgcagtgt aggagatgga gaaactgtag agtttgatgt 300  
ggttgaagga gagaagggtg cagaagctgc caatgtgact ggcccgatg gagttcctgt 360  
ggaagggagt cgttacgctg cagatcggcg ccgttacaga cgtggctact atggaaggcg 420  
ccgtggccct ccccggaatg ctggtgagat tggagagatg aaggatggag tcccagaggg 480  
agcacactt cagggaccgg ttcacgaaa tccaacttac cgccaagggt accgtagcag 540  
gggacctcct cgcccacgac ctgccccagc agttggagag gctgaagata aagaaaatca 600  
gcaagccacc agtgggtcaa accagccgtc tgttcgccgt ggataccggc gtccctacaa 660  
ttaccggcgt cgccgcgctc ctcctaacgc tccttcacaa gatggcaaag aggccaaggc 720

aggtgaagca ccaactgaga accctgctcc accaaccagc agagcartgc tkartaacac 780  
caggytctm aggcacctty accatcggca ggtgacctaa agaattaatg accattcaga 840  
aataaagcaa aaagcaggcc acaaccttaa ccaacaccaa agaaacatcc aagcaataaa 900  
gtggaagact aaccaagatt tggacattgg aatgtttact gttattcttt aagaaacagc 960  
tacaaaaaga aaatgtcaac aaatTTTTTcc agcaagctga gaacctggga attctgcacg 1020  
gaagaccaga gagtagcctc ttccgTTTTc agcaaccgct aggtttccat ntttttttcc 1080  
nggtttttac tgTTTTggtA atatatatat tgaaaccagg aatattaata cccatgggga 1140  
gaaccccacc caagaattga atatatggtA atgctTTTTt ccgTTTgtca ttggtgctgg 1200  
nctgcgattc tgaacccggg a 1221

<210> 758

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (630)

<223> n equals a,t,g, or c

<400> 758

attagcgcgt aacgagagac tgcttgctgc ggcagagacg ccagaggtgc agctccagca 60  
gcaatggcag tgacggcggtt ggcggcgcgg acgtggcttg gcgtgtgggg cgtgaggacc 120  
atgcaagccc gaggtctcgg ctccgatcag tccgagaatg tcgaccgggg cgcgggctcc 180  
atccgggaag ccggtggggc cttcggaaag agagagcagg ctgaagagga acgatatttc 240  
cgacattaca ggttatgctt tgagatctct ttggggtgaa ggattgaaat taaaccctga 300  
gccaccgtgt ccttgtagag cacagagtag agaacaactg gcagctttga aaaaacacca 360  
tgaagaagaa atcgttcatc ataagaagga gattgagcgt ctgcagaaag aaattgagcg 420  
ccataagcag aagatcaaaa tgctaaaaca tgatgattaa gtgcacaccg tgtgccatag 480  
aatggcacat gtcattgcc acttctgtgt agacatggtt ctggtttaac taatatttgt 540  
ctgtgtgcta ctaacagatt ataataaatt gtcatcagtg aaaaaaaaaa aaaaaaaaaa 600  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa c 631

<210> 759

<211> 2496

<212> DNA

<213> Homo sapiens

<400> 759

ggcaactatt gtaacatccc aaaagctccc cttgtgcctt ttccggtcat tgtcttttca 60  
ggagttgcca ctatcctaatt tctaacacca tagcttcgtt ttgtctgaga ctacgttcct 120  
tttaataataa ctgaactggt taattcatct gagaattcta cctatgatga aaaatgttgt 180  
ggtggttagca tttgggttaa ttctrattat agagtctctt ggagagcaat gtccataaac 240  
taatcccaa caacattgtc tttttratgt tgtagtgaac agcagagaaat ttcaaaggac 300  
cttgctaata tctgtaagac ggcagctaca gcaggcatca ttggctgggt gtatggggga 360  
ataccagctt ttattcatgc taaacaacaa tacattgagc agagccaggc agaaatttat 420  
cataaccggt ttgatgctgt gcaatctgca catcgtgctg ccacacgagg cttcattcgt 480  
tatggctggc gctgggggtg gagaactgca gtgtttgtga ctatattcaa cacagtgaac 540  
actagtctga atgtataccg aaataaagat gccttaagcc attttgtaat tgcaggagct 600  
gtcacgggaa gtcttttttag gataaacgta ggctgctg gcctggtggc tgggtggcata 660  
attggagcct tgctgggcac tcctgtagga ggctgctg tggcatttca gaagtactct 720

```

ggtgagactg ttcaggaaag aaaacagaag gatcgaaagg cactccatga gctaaaactg 780
gaagagtgga aaggcagact acaagttact gagcacctcc ctgagaaaat tgaaagtagt 840
ttacaggaaag atgaacctga gaatgatgct aagaaaattg aagcactgct aaaccttcct 900
agaaaccctt cagtaataga taaacaagac aaggactgaa agtgctctga acttgaaact 960
cactggagag ctgaagggag ctgccatgtc cgatgaatgc caacagacag gccactcttt 1020
ggtcagcctg ctgacaaaatt taagtgtggt tacctgtggt ggtagtggt tgctcttgct 1080
tttttctttt ctttttaact aagaatgggg ctgttgtagt ctcactttac ttatccttaa 1140
atttaaatac atacttatgt ttgtattaat ctatcaatat atgcatacat gaatatatcc 1200
accacacctag attttaagca gtaaatataaa catttcgcaa aagattaaag ttgaatttta 1260
cagttcgtat attcatgttg tcctttgaaa gggtagtcta gaaatcactg gaaagaggag 1320
aggaaagaac caggtaggca aatgggtctgt gaaacccttg ggtcctggaa gcagtgtgag 1380
tgtaaatgtg tagtggttggt ttcatctaa ataaacaaag atgatttctt tgacacttga 1440
aataaaatac aaattcaaca aaaagtagat cagcattatt aaagaaacgg ttcaactttg 1500
tttcttccct tagtattgct gacaaagtat ctgctgtaga atacaggaat tacttagaat 1560
agaaacatag tcatcacac tgttactaaa tggaaaagaa aagaattatt gagttaagta 1620
ttcctgtcaa tacgggaaac actgctagta ccttatgttg gtgttagacc tytctgccct 1680
acactgagaa tatagtttta cacaggagca aggtttgtga agcagcatag tgaggtagct 1740
aaagccatgg gctggctcta aaggctttta atcccagcca tggggcttag ctgccatgag 1800
atgtgcattt gagaaatggt gtcttctttt gctgttcaac tccagatttt cagatgataa 1860
tgtgattatc ccagcttaag ttgcgtccac ttctggtcta gtgaattgtg gaaggcagtt 1920
ttagagaaag gagtcatgag taacatgaac agcagttggc tatgtctttc cagttctctg 1980
ctgatgtcag aaagaccag aaataccaag gagaaaaagc catcttaggg atctaaggag 2040
gccctatgga aagttactac cttagacatt tgaagatagc ttactgctta gtacatacac 2100
tgtaacaac gatctcttt taaatgagaa ctttctcata aatattttac aaatgaggtc 2160
aaactagcat aaagccattt aaagagatta acagtccaat atgaaccagt taagtctttg 2220
gactatccct ttctctcttg actactgctt tgacgtacct aaatcattca tcttacatgt 2280
cagaggaaat tagttttgga tagttctcct ttctgctgtw cctcatgggg gagtgagaga 2340
gcagcaatag agaacacaat gaaaaaaatg gaatactggg taaacaccaa taatatttcc 2400
attagtctcc taaagatgta atgcatagga agtatggcat gaacatcttt aggagactaa 2460
tgatgttcat gccatacttc caatgtaatg catagc 2496

```

<210> 760

<211> 2048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1957)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1963)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2006)

<223> n equals a,t,g, or c

&lt;400&gt; 760

```
ggcacgagcc cggctgacgt gcccgagaag acgcgggtccc tgggaggcag gcagccgagc 60
gacagtgtct ctgacacggt tggccctcgg tgtgccaggc ccgagggagc accctggaca 120
gcctgaggac agccccgagg ctgaggcctc caccctggat gtgttcacgg agaggctgcc 180
gcccagcggg aggatcacca agacagagtc ccttgtcatc ccctccacca ggtccgaggg 240
gaagcaggct ggccgacggg gccggagcac atccttgaag gagcggcagg cagcacggcc 300
ccagaatgag cgggccaaca gcctggacaa cgagcgctgc ccggacgccc ggagccagct 360
acagatcccc aggaagactg tgtatgacca gctcaaccac atcctcatct ccgatgacca 420
gcttcccga aacatcatcc ttgtcaacac ctcggactgg caggggcagt tcctctccga 480
cgtcctgcag aggcacacgc tcccgtggt gtgcacgtgc tctcctgcgg acgtccaggc 540
ggccttcagc accatcgtct cacggataca gagatactgc aactgcaatt cccagccccc 600
gacccccgtg aagatcgccg tggcgggagc gcagcattac ctacgtgcc aacctgcggct 660
ctttgtggag cagctgtccc acaagacacc cgactggctc ggctacatgc gcttcctggg 720
catcccactg ggctcccacc ccgtggccag gtacctaggg tccgtggact accgctacaa 780
caacttcttc casgacctgg cctggaraga cctgttcaac aagctggagg cccagartgc 840
ggtacaggac acgccagaca ttgtgtcacg catcacgcag tacatcgag gggccaactg 900
tgcccaccag ctccccatcg cagaggccat gctgacctac aagcagaaga gccctgacga 960
agagtcctcc caaaagtcca ttccctttgt cggggttggg aaggttggaa ttgtggagcc 1020
atcctcggcc acatcaggcg actcggacga cgcgccccc tcgggctctg gcacgtctct 1080
ctccaccccg ccgtccgcat ctctgcggc caaggaggcc taccacccc cgccctcctc 1140
cccgtcggtg agcggaggcc tgtcctcccc cagccagggt gtcggcgccg agctgatggg 1200
gctgcaggtg gactactgga cggcagcaca gcctgcggac aggaagaggg acgccgagaa 1260
gaaggacctg cctgtcacca aaaacacgct caagtgcact ttccgggtcc tccaggtcag 1320
caggctgccc agcagcggcg aggtgcagc cacgcccacc atgtccatga ccgtggtcac 1380
caaggagaag aacaagaagg tgatgtttct gcccaagaaa gcgaaggaca aggacgtgga 1440
gtctaagagc cagtgcattg agggcatcag ccggctcatc tgcactgcca ggcagcagca 1500
gaacatgctg cgggtcctca tcgacggcgt ggagtgcagc gacgtcaagt tcttccagct 1560
ggccgcgcag tggctcctgc acgtgaagca cttccccatc tgcattctcg gacactccaa 1620
ggccaccttc tagccccacc caccaggggg cccacctcct gccccatgct gtgagggggc 1680
cagctgcatt tctgttaaca tttcagttta ctacagagac agacgcttaa aacacaaaga 1740
gaaacagtct taagtatgaa tgtgttcaca acgtggaaac taacggggga gctcctgcca 1800
ggagccgaat aactgctctg cttattaacc cgaacgttcg gcccggggct ggggaagccag 1860
aaggacgatg ctgagccatg gatcgcgaa ggctcctct ggctcagga gccaccaga 1920
agccttacag gcttgagttc ttgsetctgt gtcctgnccy ttncgtggaag tcaaggactc 1980
tgctttctta aggagccccg gggaangctg aacttaatgg gcacaggccc gaggggccat 2040
tggggccc
```

2048

&lt;210&gt; 761

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1728)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 761

```
gtaaagactt tgaaaaagaa atgtacttgt taggaagtag ctttaattacc cccattgca 60
gtattattgt tatatatata gttaatatgt tgtacatcac aataatatat aattcagtct 120
ctagtttccc tagagtcatt ttgaaacca ctgattgcaa acctccctga caatttttaa 180
```



```

aagtagtaag ccacattaca tttatctttg taaaaagatt tatggtaact ggtttcttac 240
ttgactttta taaatagtat tttacatctt atttttgcct ttatttcata agtaatttaa 300
aaatcactgg attgctttat tatattcagg gcaatatgga ttatttttat accaaggatt 360
tgcacgtga attacattaa gttatttggc aattttataat ttattactac tttaaatcaa 420
atgtagcatt atcacactgt atttaaatg tcatTTTTta aaggaatatt ttcttcttaa 480
gatatataga ggatttttga gaagagagac aggaggggta aaaccagctt aagggttcagc 540
gagcagaaaag ggacctgaga ggatgctcac tgtaagactg ttggacagtg gtgtgtattg 600
aggggatgaa tcggaacgat agtctcatgc agaaaatagt gagattaaga tcatccttat 660
tgtttctaaa ttatttcaat cagatgaaa tgatacgatt gaaatgaaat cacatagttc 720
gtgctcagaa attctatttt ggtatgtttg tattagcctt tagaaaaaac actccgtttc 780
agaattgttc acagttttat ttcttaggtt tttagagttc aggatttcat ttattaattt 840
cttcttgctt ttttgggtga aataggcttt gttgtaaaca ttaagaatat aaaatctcct 900
ctatatagaa acaagaattt tgtaaaaaag agaatttgaa tcccttccta tactataaaa 960
tgctctatag ggagacaaaag tgtttctttt ttcttttatg ttactgttt atgtggagtg 1020
aaatataagg ctcttggatg tataacatac tcaaaagctg ttacactttc tctgatctgc 1080
tgtgatccac tgaaaatgtg ctgggggttg ttctgctgtc actgtttatg ctgctggaac 1140
ttagcactgt cttgatttga agcatatgat tgagagccat ttgaagcaat cttcattaat 1200
gcagataaaa caagtttaca tgtgcagagt tagaaaatga catgttcaat tctgtaagtg 1260
gtgacttttt gagcaccttt cagtattatg tatttgtaaa aaccattgtt tttggatata 1320
aagctaataa gcacttttaa aaggaaaagg cagcctttac tattttttct gggtgagtca 1380
ttgctcttta gacctagcat cagcaataga tttcaaagat aagtattaa cgctacccta 1440
aagtgtgtaa gtttttcatt ttgtcatatt gaaaaatgat ttgcatagta ctgaatgttg 1500
acacacagct tatatgtatt tacaagaata tctttaagtg tttttttgac acattaaaat 1560
aaaggaaata aggaaattgt aagcttttatt tggattttta aatacatttt taaaatttca 1620
gatgtaattt aacatcacat ttgtttttca ggtattgagt ttagatgcct actttttatg 1680
aggtaccatc agctgggaca cagtgtcccc gtggcctggt gttttggnag gcaccttttg 1740
gggaaggctg gaggcag 1757

```

<210> 762

<211> 4448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (920)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4446)

<223> n equals a,t,g, or c

<400> 762

```
atngcattaa tatttaatat tgcttgcttt tcctctgggc acaccattt tgatcattaa 60
ccagagtacc tctactctta gcaaactcta gtttatgaca aagtatttaa aatattttaaa 120
acaagcttat gcagttctta aggacgaagg taaatgagat gtaacttaaa aatagtattg 180
ggaaaatgtt gatagttaac attagtggat ttagactagc cawatgacat agtaggctct 240
gaaacatctt ktcaagtata tgtattttgt gcatgaattt ttgctggaaa kctgtctttc 300
tctgawawac acaackttct tagaatgaaa agaacaatta taawataatt atcctatatg 360
tgtttttcat tcttttttagt gtcattggctt caaaaatgaa acattttattt taattgccgt 420
aaaggaactg tattttttgtt ttgtttttta acacagcact ttaaacyag tttgtgtttt 480
gtcaacttga actggaatct cttttgttac tttggagggtg ataaatagtt ttcaaactctg 540
ctgatttgta tactgtggca caagtatctt tgaactttga tagtgaaagg agaccttcaa 600
caatttttag tctaggcgag aggaatatta ggaatgtgac ttctaaattt tacaatagag 660
cagttatttt aaggctcatgg ttaacatttc ttaagggtcm actaaaattc agttaaaatt 720
tcagagctac gaggaactta aatcttagct aaaaattacc tgtttagat agtattaatt 780
agattgtttg cagctattaa ttcatcataa agataaaatg aagaaactct cccttttttt 840
aaacaaaaaa aattattttct agattaatag gctagtagtt atttctgcag aaacaacgta 900
tggaactga aagccacctn tttttatttt agactaattt aaaccacttg gaatggattc 960
taggaaacat cttaagcttg tgtgttgctt gtggtggttt tttgtttggg ggtgtttttt 1020
ggttttggtt tgattttctg tattttgtta tctggggatt tttgtttgtt ttgttttggt 1080
ttggttttg ttttatattt ttggcatgtc tatggcagtt aaaagtggta tttttgctt 1140
tagataggga atcaggttat aatcattgtt ctctctctaa actgcctctt gggctttaca 1200
tcaggtcaag gatttttagg gtttctcaaa aataggattc ttgtcagtg atgcatgctg 1260
agtaagtcac ctttctggct ctaatttctg ggtggccatc tgtgtccag ctctgctgcc 1320
aactggactt tccgaaagcc atgtcaacta attttttata tgctaagaca aatcgaatat 1380
gaaaagagga agaataattct agatattcta agacatttct taatttggca tctcagagga 1440
ggtaggtgga aagtaaagga agagataatt ttgggggaaa atttgtggaa acatacaaaa 1500
cgttttgctt tgtatagatg ctaaacagag tgggaggcag catatttgta acaacaacca 1560
ttctgacctt ttgaaacaca agcttttgga gaagtcaggg agagacacag tatgaataaa 1620
agcaattaac attttcttta atgtatattt ttcaaagagg accackgaat cctgttctct 1680
aaccgaagg gcagtgtagg tggttttaag cccacagaat attgagatat ttctcttggt 1740
gttttggtg ggtggtggga tgcagaagg tattaagat caatttaagc atcagataga 1800
ctatcccttt tattttttta acttttaggt tcargggtac atgtgcaggt tgttatatag 1860
gtaaactcat gtcaagtgtt tttgtgttac agattatttt gtcaccaggt tgctaagcct 1920
agtaccaggt agttattttt cctgctcttc tccctctcc caccctccac cctcaagtag 1980
gccccagtg ctgtgtttcc tttctttgtg tccttgagtt ctcatcattt agctcctact 2040
tctaaatgag aacatgtatt tggttttctg ttctgtgtta gtttgctaag gataatggcc 2100
tccagctcag atggaatatt tctatcatat agacctgttg ttacagggca ggatcggatg 2160
atggacactg aagtcctcag cttgctaagt tcagttgctc tccctagcct ctttttggt 2220
tcagagtctt ttgattccat ctatcctggt attttttggt tgctgatgtt tagttctgga 2280
ttggyttcag ctgtgctaatt aggaaggcg ttgtcttttc aagcaatctt aaaagggtgt 2340
caatcaaaag gccagagtct gaatcccttc tgtggcttaa ataatttgag gatcaagtcc 2400
agtgtcttgt taatccctgt tctactgtgc cagacactat cttgaatgct tttatatgtt 2460
caggttcaaa atcgctcttt cataccagg gatgatagta acgtgtaact tgcaatagat 2520
tccttcatct tagtaataag atgatcagtc tagttaggac aaaatagaga ttgaataaat 2580
taacttttcc aagtttacag agtaaaaatg agcagatctc tgcctgggtt tgtgaaaaag 2640
agttagcact ggtaaaataga atatttctac tcctacacca ttctttcagt atatcatcac 2700
tgaagacagg aagataggca cacagattct tcctcgtagt aattcatagt gcactagggtg 2760
aaagagatga agtatgtatt aaaagtacaa tgtgatggca tttattattc agataatccc 2820
aggattctag aagaaaaataa agaagagtga cagttcagtt aggggtgtgaa cttccagagg 2880
```

agcactgctt aagctgaact tgagagcatt gtgcaaaagc acagtagtct gttaagaact 2940  
agaaataacc tagcttgtgc cacttcggga gtattaagac ataagcctag aaaggttaggc 3000  
aaaggttaga tcttagactg tcttgtatct ttctcattcc tggtgattac ctacctcaaa 3060  
attgaatatg tttttcctcc tgccaaacac aaaactacyc aagggcagaa atttaaattc 3120  
ttccttggtg tatgtgcaaa gaaggttgaa tatattcatg cctaccttat tttggactag 3180  
gaatacagta gtatactttc cgaagacttg cctgaatagt atataaggtg gaggcaactg 3240  
actagttagg tcagtatttt tagaaactct taatagctca tactcttgat accaaaagca 3300  
gccctgattg ttaaagcaca cacctgcaca agaagcagtg atggttgcat ttacatttcc 3360  
tggtgacaca aaaaaaatt ctcaaaaagc aaggacttac gctttttgca aagcctttga 3420  
gaagttagtg gatcatagga agcttataac aagaatggaa gattcttaaa taactcactt 3480  
tctttggtat ccagtaacag tagatgttca aaatatgtag ctgattaata ccagcattgt 3540  
gaacgctgta caaccttggtg gttattacta agcaagttac tactagcttc tgaaaagtag 3600  
cttcataatt aatgttattt atacactgcc ttccatgact ttacttttg cctaagctaa 3660  
tctccaaaat ctgaaatgct actccaatat cagaaaaaaa gggggagggtg gaattatatt 3720  
tcctgtgatt ttaagagtac agagaatcat gcacatctct gattagttca tatatgtcta 3780  
gtgtgtaata aaagtcaaga tgaactctca agagcctcct acttttgtct tattgtcaga 3840  
tatgtgaaag cagtttttag aggttagaaa atggaaattt ccacctttct agtaggatga 3900  
gaatagagaa atgttctatt ttttttttcc ctacctgcat ttgcattcat ggatggccag 3960  
gattcgtttt ggggtattat ttttattggt gttttgcata ctactagcta ttggatctac 4020  
tatattgctg ttatcattga gtatgctttg aagagcctta aatgactcca gcagtttgct 4080  
ttgggtgtga agtctttaat tttcccagag atggtggaaa tccgattctg agtgaaagtg 4140  
acagttatca attactgagt tattttcaac cttgtcctca actgggagcc ttcagatgcc 4200  
caaacattct ggcaagtaac tattattttc tgtctaaaat ctgtttgtga gcatagtcca 4260  
tcagtcagat tattcagcca atttatacta ttattagtat ttactgagaa atatgaaaag 4320  
gcttttgtct tgctttgagg aatgtggtct tcctgctggt agcttcccaa aactgaataa 4380  
acacagacca acctttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccncgggggg 4440  
ggccnngg 4448

<210> 763

<211> 2890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 763

ggactgaagg accgcggttn agggggcgca ggaacgccaa agaaaagaca agcaccgagg 60  
gccgggaagg gtgtaggctg cagtggcagc ggatccccgg ccgccgcttc cggcgcttcc 120  
cggcccagct ctcccgcgcc gactctgcc catcctccgg tgacgtcagc cggggccgcc 180  
atattgaaa ggcgccgccc ccgcctccgc cttggagctc ggggtgttcc ggggactgcg 240  
gccacaggca ggaaggcgct cctctcctgc cccgccgacg cccggccagc ccgcttcgcc 300  
ctgacctgtt tctcatgac tgcctccggc cctgctgccg acggacgtcg ccccgcgctc 360  
cggatttaac acggaaccgc ggatcggagg ccgcgcgggg aggaggaggg cgaccgggtc 420  
ggtcctgcga ccctctcggc ccggtctcgg gcctcggcgg gagccatgac ctcgctgacc 480  
cagcgcagct ccggcctggt gcagcggcgc accgaggcct cccgcaacgc cgccgacaag 540  
gagcgggagg cgggcggcgg cgccggcagc agcaggagac acgcgcagag ccgccgcgac 600  
gagcaggacg acgacgacaa gggcgactcc aaggaaacgc ggctgaccct gatggaggaa 660  
gtgctcctgc tgggcctcaa ggaccgcgag ggttacacat cattttggaa tgactgtata 720

```

tcattctggat tacgtggctg tatgttaatt gaattagcat tgagaggaag gttacaacta 780
gaggcttggtg gaatgagacg taaaagtcta ttaacaagaa aggtaatctg taagtcagat 840
gctccaacag gggatgttct tcttgatgaa gctctgaagc atgttaagga aactcagcct 900
ccagaaacgg tccagaactg gattgaatta cttagtgggtg agacatggaa tccattaaaa 960
ttgcattatc agttaagaaa tgtacgggaa cgattagcta aaaacctggt ggaaaagggg 1020
gtattgacaa cagagaaaca gaacttccta ctttttgaca tgacaacaca tcccctcacc 1080
aataacaaca ttaagcagcg cctcatcaag aaagtacagg aagccgttct tgacaaatgg 1140
gtgaatgacc ctcaccgcat ggacaggcgc ttgctggccc tcatttacct ggctcatgcc 1200
tcggacgtcc tggagaatgc ttttgctcct cttctggacg agcagtatga tttggctacc 1260
aagagagtgc ggcagcttct cgacttagac cctgaagtgg aatgtctgaa ggccaacacc 1320
aatgagggtc tgtgggcggt ggtggcggcg ttcaccaagt aactctgctc ggggtgaacc 1380
attctccttt ctctcaagta aaccagtagt ttttcttctg ttgacttctg gttttctgta 1440
atttgtaact tcccacacta taattggctt ctgttttaca aaatggggg tggctttttc 1500
ttttttgtac gtgtacagga ttctgctggt acgagaggcc ttcctctttc tgtttttaaa 1560
aaaagtttta ctgccatatt ggcattccat tccctgttgc catcctcact gttacctgtt 1620
ttgggtttct ggtctacttt gactttcaaa gtacctccag cctcctcata cgcacagctt 1680
ttggatgacc tcagcttgag tttctccata tgtgcatgta catctagcat tctgcctaca 1740
gttcagacag aagtcacaaa aaggccttca actcaccaaa ggtaaatatc tgtatctatt 1800
aggacatttt ttacatagac ttcagttgag atgtatactt agcaaaaatta tttttaaaatt 1860
gaaacagcac agtaataact taatataaaa tgtcccttgg attttgcttc ccatgtaaat 1920
ctattgtatt attacacttg ttataatttt aactataaag gtccaattgt ttcacagagc 1980
cagtttggga tgggctgcat tccatttatg ctgtatatag tttgaattat atataaatta 2040
ccccttcttc tggccacccc tgctcccatc ttagtatttt gcaagatcta atcagttgta 2100
cacctggtgc ccctcgcttg cttcaatcat ggttatttga tggcaaaatc gacctcttgt 2160
cgctgaagga gagagaaaag atgtgtgtct gattggtcct gggatttttt gagctgtgcc 2220
atttatggta ctctttgcct atgcatcccc tttttagatt ttttttaaat tttatcttac 2280
tgtttttata atttctattg ggaagaggct tgtgaccagt accaatcttg agtttctttt 2340
tctgtccaca agtaaatata tatctgctct gaaatgtcat ttatctactc acacattctt 2400
ggggaaaaaa atcaaatgtc agtcctagca gatgttgcat gtaaatgggt agcaagtaat 2460
gattacaacc cagaggatta agaattttgt aacagaaagc tctatgtttt aattttttat 2520
atacaattag gataattagc attgtcagac tataaacctt tgctttttta agttttat 2580
tactatttct ttatcacttt attgtatcat caccattggt ttcataatgt aaatactata 2640
tgttgaacaa attaaatgtc aaaatttttt attaccatag tccatgttaa tagtggggct 2700
ttcagggtgt tagagatttt ttttggtgtt gttaacattc attgcaaaag tactagatgg 2760
tgtataactc tagagttgaa ttttaaggga ttccctaata tgtatactat ctttttatct 2820
gaagtaataa ataaacaatg atcttgaaag tgcctgaaaa aaaaaaaaaa aaaaaaaaaa 2880
aaaagtcgac 2890

```

<210> 764  
 <211> 1703  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (368)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (860)

<223> n equals a,t,g, or c

<400> 764

```
cataggttct gtctttgtct ctccctttca cctcattctg gtagcagcat aaagggttagg 60
caatcactgg gacccgcatg gtgttcctcc aaagaatagg gtaaaggaga gctgggaggg 120
agccctctcc gttgggtgac tcttgtgtgc ccttttagaca ggctggcctg ccggttccac 180
agggtacagt taggacttga gtctttcttt ttctgttttg agttgggtgag tgagtgatag 240
ggtaacatgg gccttcagga tgaccccttg gaactgtgcc gagttcctta aatctcagct 300
gggatcctgg acctgggagg cccctgtgag ggccagctct ggaaaaacct gggagttgat 360
gccggagntg tggaagaact ctgctcgagg gcagggtgcc ctggaacact ggtagttctg 420
gggctgggag ggagaggggc tccggcttct tctgaaatga aactgtctct tcagcagttc 480
aagtacttgt tctcaaaaaca ttttctaatt gattggtagg ttttcataag cattgtttct 540
ttaaggcatg gaaagggaag aatgctcaag caagtcatgt ttgttttcag tgggatgggc 600
ccgcgttctc actgtggggg gcttcccctt catgtggcac ctttgtgcag gccaccaggc 660
agactcttcc cacttctctc cactgaagca ccaagrggct tgaaccgtaa tttggctaata 720
cagaggcatt tttttgtcc tagtatcttt cacacttgct caaccgtctt atttttttaa 780
aagttctgtt gcttgtatta acacgaaact agagagaaat agtttctgaa gccagtttat 840
tgtgaagatc cccaaggggn aggttcggta gagaaaaata gtaagctggt ttagaaactg 900
acgagggcaa acagccagga cgcattggag aggaatttgc caaagatcta ccctgagata 960
acgcctgtcc agtgtcttca ccacgtgaat aaccagcgct ccaaagtgtt tttctgcttt 1020
gaaaaaaaaa attccacaag cttttaaagg tgcattttaag aatccatgtg actttagaat 1080
ggaactgccg gccctggcaa ctgtcacgtg tgctagaagg ttcgatgcct ctggaatgca 1140
tgtgatactc atctccattt tgtttccttg attgcatttt tgttctttta gcagatctgt 1200
ccctgtgggt ggtgtctaaag aagtcggaca ccttggtttt tgtgttagat tgagctgggc 1260
agctgcaatc agcttcttta tatgcaaatt aggcacgacc catctgtggt tcctggttgg 1320
tggctaataga agtgagggga gggagggatg tcaccccaaa agtaggccct ccattgggt 1380
ttggccaggc cagacacttc acatcgttta catggttctg tgtaatttta aagtttatgt 1440
gtataaagcg aagctgtttc tgtgaaactg tataattttgt aaataaatat attgctactt 1500
tgaggttcat gaaaaaaaaa aaagcgtaat aacgcgaact accgtcatga gaggttatgc 1560
ggcacggtga acacgcggac tatactctgt gaccgtgcga cggccgaggt aagggccct 1620
ctccgcggag ccccgccacg ggtgggcaaa agcccggctt tctcgcgtag aggtttccac 1680
aggcgctgt ggccaaggc gat 1703
```

<210> 765

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c

<400> 765

```
ggcagagccc cggcggagtg tcccgcggtg ggctaggggc agggccggag ccgcggcgcg 60
kagctgtggg tttgaraggt tatttgtcca tgggatgctc gtgttaaac aaaaatcttc 120
attgcaaagc ttaagtaaaa acaagtctcg accganatcc ttcagatga gagatttggg 180
gacacttctc tctcctgtgt gtagttgata gtttggtggt gaagagatgg ctgacagtgt 240
caaaaccttt ctccaggacc tt 262
```

<210> 766

<211> 3072  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3072)  
<223> n equals a,t,g, or c

<400> 766

```
ttcgactcct tcaggttattc ttgaactgcc tgacttaggc cagccctaca gcagtgtgt 60
ttactcattg gaggaacagt accttggctt ggctcttgac gtggacagaa ytaaaaagga 120
csaagaagag gaagaagacc aagccccacc atgccccagg ctgagcaggg agctgctgga 180
ggtagtagag cctgaagtct tgcaggactc actggataga tgttattcaa ctccctccag 240
ttgtcttgaa cagcctgact cctgccagcc ctatggaagt tccttttatg cattggagga 300
aaaacatgtt ggcttttctc ttgacgtggg agaaattgaa aagaagggga aggggaagaa 360
aagaagggga agaagatcaa agaaggaaag aagaagggga agaaaagaag gggaagaaga 420
tcaaaaccca ccatgccccca ggctcagcag ggagctgctg gatgagaaaag ggctgaagt 480
cttgccagac tcaactggata gatgttattc aactccttca ggttgtcttg aactgactga 540
ctcatgccag ccctacagaa gtgcctttta yrtattggag caacagcgtg ttggcttggc 600
tgttgacatg gatgaaattg aaaagtacca agaagtggaa gaagaccaag acctcatcatg 660
ccccaggctc agcagggagc tgctggatga gaaagagcct gaagtcttgc aggactcact 720
ggatagatgt tattcgactc cttcaggtta tcttgaactg cctgacttag gccagcccta 780
cagcagtgtt gtttactcat tggaggaaca gtaccttggc ttggctcttg acgtggacag 840
aatataaaag gaccaagaag aggaagaaga ccaaggccca ccatgccccca ggctcagcag 900
ggagctgctg gaggtagtag agcctgaagt cttgcaggac tcaactggata gatgttattc 960
aactccttcc agttgtcttg aacagcctga ctccctgccag ccctatggaa gttcctttta 1020
tgcattggag gaaaaacatg ttggcttttc tcttgacgtg ggagaaattg aaaagaaggg 1080
gaaggggaag aaaagaaggg gaagaagatc aaagaagraa agaagaaggg gaagaaaaga 1140
aggggaagaa gatcaaaacc caccatgccc caggctcaac ggctgctga tggagtgga 1200
agagcctgaa gtcttacagg actcactgga tagatgttat tgcactccgt caatgtactt 1260
tgaactacct gactcattcc agcactacag aagtgtgttt tactcatttg aggaacagca 1320
catcagcttc gcccttkacg tggacaatag gttttttact ttgacggtga caagtctcca 1380
cctgggtgtt cagatgggag tcatattccc acaataagca gcccttasta akccgagaga 1440
tgtcattcct gcaggcagga cctataggca mgtgaagatt tgaatgaaas tayagttcca 1500
tttggaaagc cagacatagg atgggtcagt gggcatggct ctattcctat tctcaracca 1560
tgccagtggc aacctgtgct cagtctgaag acaatggacc caggttaggt gtgacacgtt 1620
cacataactg tgcagcacat gccgggagtg atcagtcrga cattttaatt tgaaccacgt 1680
atctctgggt agctacaaaa ttcctcaggg atttcatttt gcaggcatgt ctctgagctt 1740
ctatacctgc tcaaggctcak tgtcatcttt gtgtttagct catccaaagg tgttaccctg 1800
gtttcaatga acctaacctc attctttgtg tcttcagtgt tggcttgttt tagctgatec 1860
atctgtaaca caggagggat ccttggctga ggattgtatt tcagaaccac caactgctct 1920
tgacaattgt taaccgcta grctcctttg gttagagaag ccacagtcct tcagcctcca 1980
attgggtgtc gtacttagga agaccacagc tagatggaca aacagcattg ggaggcctta 2040
gccctgctcc tctcaattcc atcctgtaga gaacaggagt caggagccgc tggcaggaga 2100
cagcatgtca cccaggactc tgccgggtgca gaatatgaac aatgccatgt tcttgacaga 2160
aacgcttagc ctgagtttca taggaggtaa tcaccagaca actgcagaat gtrgarcact 2220
gagcaggaca gctgacctgt ctccctcaca tagtccatrt caccacaaat cacacaacaa 2280
aaaggagaag agatattttg ggttcaaaaa agtaaaaaag ataattgtagc tgcatttctt 2340
tagttatttt garcccaaaa tatttccctca wctttttgtt gttgtcattg atgggtggta 2400
catggacttg ttatagagg acaggtcagc tgtctggctc artgatctac attctgaagt 2460
```

tgtctgaaaa tgtcttcatg attaaattca gcctaaacgt tttgccggga acactgcaga 2520  
gacaatgctg tgagtttcca accttagccc atctgcgggc agagaaggct tagtttgtcc 2580  
atcagcatta tcatgatatc aggactgggt acttggttaa ggaggggtct aggagatctg 2640  
tcccttttag agacacctta cttataatga agtatttggg aggggtggtt tcaaaaktag 2700  
aaatgtcctg tattccgatg atcatcctgt aaacatttta tcatttatta atcatccctg 2760  
cctgtgtcta ttattatatt catatctcta cgctggaaac tttctgcctc aatgtttact 2820  
gtgcctttgt ttttgctagt gtgtgttgtt gaaaaaaaaa acattctctg cctgagtttt 2880  
aatttttgtc caaagtattt ttaatctata caattaaaag cttttgccta tcaactctgga 2940  
ctgttggtt gttttttaca ttcagtgtta taatmttgt tatgctgatt ggttttgggtg 3000  
ggtagctgat tgaattaata aaaacatttc atttccaaaa aaaaaaaaaa aaaaaaaaaa 3060  
aaggggggcc cn 3072

<210> 767

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<400> 767

gcgcgagcgg aatctcggcg ctcccgggaag tggycatgaag gcggcgcgcc agtcccagac 60  
agtgtctcgt cctgtctcgg gcgctgcggc cccgggcgtc gccatgacca gtgagctgga 120  
catcttcgtg gggaacacga cccttatcga cgaggacgtg tatcgccctc ggctcgatgg 180  
ttactcgggt accgacgcgg tggccctgcg ggtgcgctcg ggaatcctgg agcagactgg 240  
cgccacggca gcggtgctgc agagcgacac catggaccat taccgcacct tccacatgct 300  
cgagcggctg ctgcatgcgc cgcccaagct actgcaccag ctcatcttcc agattccgcc 360  
ctcccggcag gcaactactca tcgagaggta ctatgccttt gatgaggcct ttgttcggga 420  
ggtgctgggc aagaagctgt ccaaaggcac caagaaagac ctggatgaca tcagcaccaa 480  
aacaggcatc accctcaaga gctgccggag acagtttgac aactttaaac ggttcttcaa 540  
ggtggttagag gaaatgcggg gctccctggg ggacaatatt cagcaacact tccctcctctc 600  
tgaccggtt gccagggact atgcagccat cgtcttcttt gctaacaacc gctttgagac 660  
agggaagaaa aaactgcagt atctgagctt cggtgacttt gccttctgcg ctgagctcat 720  
gatccaaaac tggacccttt ggagccgtcg gtgaaggmcc cattggagcc gtcgactcac 780  
agatggatga catggacatg gacttagaca aggaatttct ccaggacttg aaggagctca 840  
aggtgctagt ggctgacaag gaccttctgg acctgcacaa gagcctggtg tgcactgctc 900  
tccggggaaa gctgggcgtc ttctctgaga tggaagccaa cttcaagaac ctgtcccggg 960  
ggctggtgaa cgtggccgcc aagctgacct acaataaaga tgtcagagac ctgtttgtgg 1020  
acctcgtgga gaagtttgtg gaaccctgcc gctccgacca ctggccactc agcgacgtgc 1080  
ggttcttcct gaatcagtat tcagcgtctg tccactccct cgatggcttc cgacaccagg 1140  
cctctgggac cgctacatgg gcaccctccg cggctgcctc ctgcgcctgt atcatgactg 1200  
aggtgcctcc caacgctccg cccacgctga caataaagtt gctctgagtt tggaaaaaaaa 1260  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320  
n 1321

<210> 768

<211> 1532

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1523)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 768

```
ggtgcattcg tgaaattctg cagcacatcg gcgaaagtga tttaaatcta ccaccagct 60
gtagttgaat ctacaatctg ctcagggatt tatactcaat gccaatattga tatcatgctg 120
ggagggactg attgcagaac cttcttgaca agccacataa atctaaagaa aacgttggtg 180
gacgtgatcc tcatggtcca ggaaagaaa atacctgctc atcgtgttgt tcttgctgca 240
gccagtcatt tttttaactt aatgttcaca actaacatgc ttgaatcaaa gtcctttgaa 300
gtagaactca aagatgctga acctgatatt attgaacaac tgggtggaatt tgcttatact 360
gctagaattt ccgtgaatag saacaatgtt cagtctttgt tggatgcagc aaaccaatat 420
cagrttgaac ctgtgaagaa aatgtgtgtt gattttttga aagaacaagt tgatgcttca 480
aattgtcttg gtataagtgt gctagcggag tgtctagatt gtcctgaatt gaaagcaact 540
gcagatgact ttattcatca gcactttact gaagtttaca aaactgatga atttcttcaa 600
cttgatgtca agcgagtaac acatcttctc aaccaggaca ctctgactgt gagagcagag 660
gatcagggtt atgatgctgc agtcagggtg ttgaaatacg atgaacctaa tcgccagcca 720
tttatggttg atatccttgc taaagtcagg tttcctctta tatcaaagaa tttcttaagt 780
aaaacggtac aagctgaacc acttattcaa gacaatcctg aatgccttaa gatggtgata 840
agtggaatga ggtaccatct actgtctcca gaggaccgag aagaacttgt agrtggcaca 900
agacctagaa gaaagaaaca tgactaccgc atagccctat ttggaggctc tcaaccacag 960
tcttgtagat attttaaccc aaaggattat agctggacag acatccgctg cccctttgaa 1020
aaacgagaga tgcagcatgc gtgttttggg acaatgtagt atacattttg ggaggctctc 1080
agcttttccc aataaagcga atggactgct ataatgtagt gaaggatagc tggtatcga 1140
aactgggtcc tccgacacct cgagacagcc ttgctgcatg tgctgcagaa ggcaaaattt 1200
atacatctgg aggttcagaa gtaggaaact cagctctgta tttatttgag tgctatgata 1260
cgagaactga aagctggcac acaaagccca gcatgctgac ccagcgctgc agccatggga 1320
tgggtggaag caatggccta atctatgttt gtggtggaag tttaggaaac aatgtttctg 1380
ggagagtgt taattcctgt gaagtttatg atcctgccac agaaacatgg actggctgtg 1440
tccatgattg agccaggagg atcatgggtg gtatttttaa agacagtatt ttgctgtggg 1500
gtggtccaga ttggttttag gtngtcttgg ac 1532
```

&lt;210&gt; 769

&lt;211&gt; 2569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 769

```
gtggccagcg ggcaccctcg gcccagacac acgtggatga aggacgacca ggccttgacg 60
cgcccagagg ccgctgagcc caggaagaag aagtggacac tgagcctgaa gaacctgagg 120
ccggaggaca gcggcaaata cacctgccgc gtgtcgaacc gcgcgggcgc catcaacgcc 180
acctacaagg tggatgtgat ccagcggacc cgttccaagc ccgtgctcac aggcacgcac 240
cccgtgaaca cgacgggtgga cttcgggggg accacgtcct tccagtgcaa ggtgcgcacg 300
acgtgaagcc ggtgatccag tggctgaagc gcgtggagta cggcgccgag ggccgccaca 360
actccaccat cgatgtgggc ggccagaagt ttgtggtgct gccacgggt gacgtgtggt 420
cgcggccccg cggctcctac ctcaataagc tgctcatcac ccgtgccgc caggacgatg 480
cgggcatgta catctgcctt ggcgccaaaca ccatgggcta cagcttccgc agcgccttcc 540
tcaccgtgct gccagaccca aaaccgcaag ggccacctgt ggctcctcg tcctcgcca 600
ctagcctgcc gtggcccgtg gtcacgcgga tcccagccgg cgctgtcttc atcctgggca 660
```



```

ccctgctcct gtggctttgc caggcccaga agargccgtg crcccccgcg cctgcccctc 720
ccctgcctgg gcaccgcccg ccggggacgg ccckcgaccg cagcggagac aaggaccttc 780
cctcgttggc cgccctcagc gctggccctg gtgtggggct gtgtgaggag catgggtctc 840
cggcagcccc ccagcactta ctggggcccag gccagttgc tggccctaag ttgtacccca 900
aactctacac agacatccac acacacacac acacacactc tcacacacac tcacacgtgg 960
agggcaaggc ccaccagcac atccactatc agtgctagac ggcaccgtat ctgcagtggg 1020
cacggggggg ccggccagac aggcagactg ggaggatgga ggacggagct gcagacgaag 1080
gcaggggacc catggcgagg aggaatggcc agcaccaccg gcagtctgtg tgtgaggcat 1140
agccccctga cacacacaca cagacacaca cactrcctgg atgcatgtat gcacacacat 1200
gcgcgcacac gtgtccctg aaggcacacg tacgcacaca cgcacatgca cagatatgcc 1260
gctgggcaca cagataagct gcccaawtgc acgcacacgc acagagacwt gccagaacwt 1320
acaaggacwt gctgcctgaa catacacacg cacacccatg cgcagatgtg ctgcctggac 1380
acacacacac acacggatat gctgtctgga cgcacacacg tgcagatatg gtatccggac 1440
acacacgtgc acagatatgc tgcctggaca cacagataat gctgccttga cacacacatg 1500
cacggatatt gcctggacac acacacacac acgygtgcac agatatgctg tctggacasg 1560
cacacacatg cagatatgct gcctggacac acacttccag acacacgtgc acaggcgag 1620
atatgctgcc tggacacacg cagatatgct gtctwgtcac acacacacgc akacatgctg 1680
tccggacaca cacacgcagc cacagatatg ctgtccggac acacacacgc acgcagatat 1740
gctgcctgga cacacacaca gwtatgctg cctcaacact cacacacgtg cagatatgct 1800
ctggacacac acatgtgcac agatatgctg tctggacatg cacacacgtg cagatatgct 1860
gtccggatac acacgcacgc acacatgcag atatgctgcc tgggcacaca cttccggaca 1920
cacatgsrca cacagggtgca gatatgctgc ctggacacac gcagactgac gtgcttttgg 1980
gaggggtgtg cgtgaagcct gcagtacgtg tgcctgagc tcatagttga tgagggactt 2040
tccctgctcc accgtcactc cccaactct gccgcctct gtmcccgctt yagtccccgs 2100
ctccatcccc gsetctgtcc cctggccttg gcggctatct ttgccacctg ccttgggtgc 2160
ccaggagtcc cctactgctg tgggctgggg ttgggggcac agcagcccca agcctgagag 2220
gctggagccc atggctagtg gtcaccccc actgcattct cccctgaca cagagaaggg 2280
gccttggtat ttatatttaa gaaatgaaga taatattaat aatgatggaa ggaagactgg 2340
gttgacagga ctgtggtctc tcctggggcc cgggaccgc ctggtctttc agccatgctg 2400
atgaccacac ccgctccagg ccagacacca cccccacc cactgtcgtg gtggccccag 2460
atctctgtaa ttttatgtag agtttgagct gaagccccgt atatttaatt tattttgtta 2520
aacatgaaaag tgcacccctt ccctccaaaa aaaaaaaaaa aaaaaaaaaa 2569

```

<210> 770

<211> 1637

<212> DNA

<213> Homo sapiens

<400> 770

```

aaaagctgga gctccaccgc ggtggcgggc gctctagaac tagtggtacc cccgggctgc 60
aggaattcgg cacgagaaac ctgcggaaaa tggtagcgat ggcggctggg ccgagtgggt 120
gtctggtgcc ggcgtttggg ctacggttgt tgttggcgac tgtgcttcaa gcggtgtctg 180
cttttggggc agagttttca tcggaggcat gcagagagtt aggcctttct agcaacttgc 240
tttgagctc ttgtgatctt ctcgacagt tcaacctgct tcagctggat cctgattgca 300
gaggatgctg tcaggaggaa gcacaatttg aaacaaaaaa gctgtatgca ggagctattc 360
ttgaagtttg tggatgaaaa ttgggaaggc tccctcaagt ccaagctttt gttaggagtg 420
ataaacccaa actgttcaga ggactgcaaa tcaagtatgt ccgtggttca gaccctgtat 480
taaagctttt ggacgacaat gggaacattg ctgaagaact gagcattctc aaatggaaca 540
cagacagtgt agaagaattc ctgagtgaag agttggaacg catataaatc ttgcttaaat 600
tttgtcctat ccttttgtta ccttatcaaa tgaaatatta cagcacctag aaaataattt 660
agttttgctt gcttccattg atcagtcctt tacttgaggc attaaatc taattaaatc 720

```

gtgaaatggc agtatagtcc atgatatcta aggagttggc aagcttaaca aaacccattt 780  
tttataaatg tccatccctc tgcatTTgtt gataccacta acaaaatgct ttgtaacaga 840  
cttgcggtta attatgcaaa tgatagtttg tgataattgg tccagtttta cgaacaacag 900  
atTTtctaaat tagagagggt aacaagacag atgattacta tgcctcatgt gctgtgtgct 960  
ctttgaaagg aatgacagca gactacaaag caaataagat atactgagcc tcaacagatt 1020  
gcctgctcct cagagtctct cctatTTTTg tattaccag ctttctttt aatacaaatg 1080  
ttatTTtatag ttacaatga atgcaactgca taaaaacttt gtagcttcat tattgtaaaa 1140  
catattcaag atcctacagt aagagtgaag cattcacaaa gatttgctgt aatgaagact 1200  
acacagaaaa ctttcttagg gatttggtgt gatcagatac atacttggca aatttttgag 1260  
ttttacattc ttacagaaaa gtccatttaa aagtgatcat ttgtaaagacc aaaatataaa 1320  
taaaaagttt caaaaatcta tctgaatttg gaattcttct ggtttggttct tcatgttta 1380  
aaaatgatgt ttttcaatgc atTTTTttca tgtaagccct ttttttagcc aaaatgtaaa 1440  
aatggctgta atatttaaaa cttataacat cttattgttg gtaatagtgc tttatatttg 1500  
tctgatttta tttttcaaag ttttttcatt tatgaacaca ttttcattgg tatattattt 1560  
aaggaatatc tcttgatata gaatttttat attaaaaatg atttttcttt gcttaaaaaa 1620  
aaaaaaaaa aactcga 1637

<210> 771

<211> 2485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2479)

<223> n equals a,t,g, or c

<400> 771

gatttacaca gcatcatgta ttgaatattg atttctcctt ttccatagca ttgaaaaggt 60  
gattatatat gtgttggtct agttctgtgc tatttttttt ccactggcct gtttgtctat 120  
cctttgttta ctaccaccaa gctataactc ttgatagctg gtaatgaagt cttccaattt 180  
tgttcaccct caagattgtc ttctggcttt tctgatttcc aaataaattg taaaattgat 240  
ttgccatttt tcacacacac accccttgct ggtttcttga ttgggattgc attaagtctt 300  
ttgatgattt gagaattgac atccttacag tattgagtat tctaacctgt gaatatggta 360  
gaaaccattg tgtattcagt tatttgattt ctttcagtta tgttttataa ttttctgtgt 420  
agaggctctg tatatgtttc attagattta ttctttggta tttgtttttt gatactatta 480  
taaatgggat tgttttaaat ttttattttc taattatagc aacttgatat tagagtcatt 540  
tgccacttta tgatggggat atgagaaatg cattgttagg cagtttcatc atgcaaacat 600  
catagagtgt acttacgcaa atcatgcaaa catcatagag tgtacttaca caaacctaaa 660  
tggtacatgc tgctacacac cttagctgta tgatatagcc agttgctcct agactgcaaa 720  
cctatacagc atgttactct actgaatacc gtaagcagtt gtgacacaat gatgagtatt 780  
tgggtatcta aacatatcta agcattttta aaatgtacag taaaaatgta aaaagtataa 840  
catggtacac ctgttttaggg cacttaccgt gaatggagct tgcaagacta gaagttgtct 900  
tggaagaatc agtgaatgag tgaatkctta ggacatcact atacactact gtagacttta 960  
taaactactgc acacttaggc tacactaaat ttatttttaa aataaagtaa ttgcaatatg 1020  
atgttatgac agctatgatg ccactaggca gcagaaattc ctgagctcca ttataatctt 1080  
ataagaccac cgttggtatat gtgatccttc gttatgtggg acatgactcg atataaatg 1140  
gattgttata ttgacctttt atctgatgac ttaactaaat ttacttatta attttactag 1200  
ttatctatag tctcattttt cctgtgtaca caattaattt atttgtaaat actaaatgtt 1260  
tccttttttc attactcata ttttttttct ttgccttact acactgccta gtaaaatata 1320  
taaaatatgt gcttcacgga aaggggactt tgattaagga catgcctcct tcagagcttt 1380

```
ttcttttccc cctagtattt ccaacttggg gatgtttggc atcgacgaat ttactgcagt 1440
gattaaccct cctcaggcct gcattttggc gggtgggagg ttccgacctg tgctgaagct 1500
cactgaggat gaagagggaa atgccaaact gcagcagcgc cagctcataa cagtcacaat 1560
gtcaagtgc agtcgagtgg ttgatgacga actggcaacc aggtttctta aaagttttaa 1620
agcaaaccta gagaatccta tccgacttgc ctagtcctca aagataagaa gttggtgttc 1680
agcttagttg attcagtagt tgttaccaag aaacatatgt tataggaaaa caacttggtg 1740
tttaagtatg aagtggatga aatgtttatt tatttaagg gaaagcattt gacccagggt 1800
gtcttcatct tcaatttggg tttaatgtta tagaaataaa tgatgataaa ctctaactaa 1860
taaaggaaag agaattttg gttactcaga tccattttta acctctggtg ctgtataaag 1920
ggaatattaa actagatgta aatcaaagta tatgtttggc tcatctgagc attttggaat 1980
atttgagaat gtatgataca tgtaaaatta aaaaaactat tagaactgta ccataattat 2040
gttgaaggta gaagtgatct tcaaagagat ggccattaac ttagcagtgg gacctcactt 2100
ttacaagcac tgctctagat atacttgaag aatttaatak gtacagaagt ttattctgga 2160
taataaataa ataaggatca cactgtatta ggggttatgg caacattatt gaatttttta 2220
tgtacataaa gccatatgtt taggggtggt tctatctgtc ttgtttttca cttatataac 2280
actgtgaact tctaaagmaa gaggataaaa gaagcatgaa tgaaaagaat gacatttcaa 2340
aaaaatggtt caatgaaaaa ctatagctaa aatatgtaaa cttttctagg taaaccgctt 2400
gccttcatct tgagtcggaa tatatttaaa taaattgtgt tatctcttgc caaaaaaaaa 2460
aaaaaaaaaa aaaaaaaang ggggg                                     2485
```

&lt;210&gt; 772

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (378)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 772

```
gggataaagg gtccatggac agaaagctgc ttgggaggac ccagtggaat gggtcyggga 60
cacacttccc tggccatcag ccaacaagac caatcaaagc tgtaccacct gccccaccc 120
accgtgggcc ctacacagcat tgccctacct cccgaggata ggacagtcaa agacagcacc 180
ccaagtcttc tggactcaga tcctctgatg gccatgctgc tgaaacttca agaagctgcc 240
aactacattg agtctccaga tcgagaaacc atcctggacc ccaaccttca ggcaacactt 300
taagggttcg gcaatcactg tcaccccccg acagcagaac gcttggcatc agcttatctt 360
tagctcctcc ttcttcnct tctccttctt ttcaagagca cttggctctt ccagcccca 420
ggaggaagaa ca                                     432
```

&lt;210&gt; 773

&lt;211&gt; 1048

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 773

```
gaaaaaatta aaaagaaaaa ttgttttgaa aatgtacaga tcaagtccaa tattttgatt 60
atccacctgc atgttttatt aaatattttg ataatgtgga tgtttacact ttgcatgata 120
ttagcagagt accactagta atgcacaaac atgtacaata tggtcattca taaccgattt 180
ttatagaata ctttttacat gtgcaactcc atccgttatg taaggattac atgaatattg 240
cacattccct tctggtttca caaacccatt tatacatatt tcttagtgag gctcattgta 300
```

catgtattga agctagaatc gagtcaagaa aaataaagcc ccattctcca actgcaaaaat 360  
gtgctttccc ataatgaaca ctagtcacca gcacagaata atctccaaca ttttctaaat 420  
tctaattgcc aactgtttct atttatatatt gatttatatt tcatttgag tctgttacat 480  
ggcagcttag gcagactaga tcttgTTTT tcccaatgca gcataatgag tatgatctat 540  
ttcttttcaa ataattcttg agatcccagg aaaaaaaaaa tgctctgctc cattgagcta 600  
taatgtaaat gtgtttgttt aaaaaacagg tgaggcaagt gagtgattta ttgttcctga 660  
ggaagtatat ctgatttttt ttctcatact ccaaaagcta gtccctactc ttttaataaaa 720  
ataatgggta actttttgtt ttctactagc gaacttccat gacatttcct ttctatgtag 780  
tgtgattaat gcaatacata ttatagttat ctatacacag tgtaagattt aacaaactga 840  
aatgatccac ctcatatgtg agtccgtcca aaagatgtta ctgctctggg tgggccagtg 900  
ttctatatcg gttatactaa ctttcattta aagtatttat tctaaaatgc ctctgagaaa 960  
cagtaaaaaa taaaaacaac aagttgtcta aaatgcaaca gcttttatag taaatgtaca 1020  
tttataaata aaataactcaa atcaaaaa 1048

<210> 774

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 774

ggcagasca cttttccagg gccgccaat aactccagta tacacggtgg ctccaaacgt 60  
tcagagaatt cctactgccg ggatctacgg ggccagttac gtgccatttg ctgctccagc 120  
tacagccacg atcgscacac tacagaagaa cgcggcagcc gcggccgccc tgtatggagg 180  
atacgcaggc tacatacctc aggccttccc tgctgctgcc attcaggtcc ccattccccga 240  
cgtctaccag acatactgag gctggtgacc agcacgaaga cagaccacac aaacaccact 300  
gaaggaaacgc ttgactattt atgaagaagg aacatgttgg attcacacat gcaacctgaa 360  
agtgaagaat gttagcagat ttattttctga attattttat atacatgaag ttttacttag 420  
ttttttaaga ctattttcaa cttagcatgc ctacgttcat acatttccaa aagacttgca 480  
atggttcgtg ctttcattcc atcttttaaa aatttgtatg ctgtactaca tttgtataga 540  
ggtttttgtt gttgtttttt taaggatata ttttcagtat gaaggttatt ttcttaactt 600  
ctgcactcca gagatttcta tttttagtag ctttcaataa tatatcaact atatattaaa 660  
aaagcacact tgaggagcta gggaactatt ttgaaaaata tatacaatat ttaaagatac 720  
aaacagtagt gcttaaaaawt actacataaa gcattatttt aaagggtata ctggaaagtg 780  
cawttttaaa atgrgtaaaa ccycgtgatt tcygctggca ttaagggtkg atggtgttac 840  
catgtatcat catggcggta ctatttttta aaagaaatta aacactggat ctctccttaa 900  
gccaacattg aaaagacttg ccgcacttct gagtccaaac actggaaagc tctcctttgc 960  
caccgttagg nggggctcat tctccatgtg ccttagcctt aaacatgccc ccactccgc 1019

<210> 775

<211> 2248

<212> DNA

<213> Homo sapiens

<400> 775

gggcccggcg cgtaggaagg cacggccggc ggcgggcgag cgcagcgatg gccgggagcg 60  
ggggcagcgc gctgctggct ctgtgcgggg cactggctgc ctgcgggtgg ctccctgggag 120

ccgaakccca kgakcccggg gcgcccgcgg cgggcatgag gcggcgccgg cggtcgcagc 180  
aagaggacgg catctccttc gaggaccacc gctaccccga gctgcgcgag gcgctcgtgt 240  
ccgtgtggct gcagtgcacc gccatcagca ggattttacac ggtggggcgc agcttcgagg 300  
gccgggagct cctgggtcatc gagctgtccg acaaccctgg cgtccatgag cctgggtgagc 360  
ctgaatttaa atacattggg aatatgcatg ggaatgaggc tgttgagcga gaactgctca 420  
ttttcttggc ccagtacctg tgcaacgaat accagaaggg gaacgagaca attgtcaacc 480  
tgatccacag taccgcgcat caccatcatgc cttccctgaa cccagatggc tttgagaagg 540  
cagcgtctca gcctggtgaa ctcaaggact ggtttgtggg tcgaagcaat gcccagggaa 600  
tagatctgaa ccggaacttt ccagacctgg ataggatagt gtacgtgaat gagaaagaag 660  
gtggtccaaa taatcatctg ttgaaaaata tgaagaaaat tgtggatcaa aacacaaagc 720  
ttgctcctga gaccaaggct gtcattcatt ggattatgga tattcctttt gtgctttctg 780  
ccaatctcca tggaggagac cttgtggcca attatccata tgatgagacg cggagtggta 840  
gtgctcacga atacagctcc tcccagatg acgccatttt ccaaagcttg gcccgggcat 900  
actcttcttt caaccggcc atgtctgacc ccaatcggcc accatgtcgc aagaatgatg 960  
atgacagcag ctttgtagat ggaaccacca acggtggtgc ttggtacagc gtacctggag 1020  
ggatgcaaga cttcaattac cttagcagca actgttttga gatcaccgtg gagcttagct 1080  
gtgagaagtt cccacctgaa gagactctga agacctactg ggaggataac aaaaactccc 1140  
tcattagcta ccttgagcag atacaccgag gagttaaagg atttgtccga gaccttcaag 1200  
gtaaccaat tgcgaatgcc accatctccg tggaaggaat agaccacgat gttacatccg 1260  
caaaggatgg tgattactgg agattgctta tacctggaaa ctataaactt acagcctcag 1320  
ctccaggcta tctggcaata acaaagaaag tggcagttcc ttacagccct gctgctgggg 1380  
ttgattttga actggagtca tttctgaaa ggaaagaaga ggagaaggaa gaattgatgg 1440  
aatggtggaa aatgatgtca gaaactttaa atttttaaaa aggcttctag ttagctgctt 1500  
taaactctatc tatataatgt agtatgatgt aatgtggtct tttttttaga ttttgtgcag 1560  
ttaatactta acattgattt attttttaat catttaataa ttaatcaact ttccttaaaa 1620  
taaatagcct cttaggtaaa aatataagaa cttgatatat ttcattctct tatatagtat 1680  
tcattttcct acctatatta cacaaaaaag tatagaaaag atttaagtaa ttttgccatc 1740  
ctaggcttaa atgcaatatt cctggtatta ttacaatgc agaatttttt gagtaattct 1800  
agctttcaaa aattagtga gttcttttac tgtaattggt gacaatgtca cataatgaat 1860  
gctattgaaa aggttaacag atacagctcg gagtgtgag cactctactg caagacttaa 1920  
atagttcagt ataaattgtc gttttttct tgtgctgact aactataagc atgatcttgt 1980  
taatgcattt ttgatgggaa gaaaaggtag atgtttacaa agagggttta tgaaaagaat 2040  
aaaaattgac ttcttgcttg tacatatagg agcaatacta ttatattatg tagtccgtta 2100  
acactactta aaagttagg gttttctctt ggtgtagag tggcccagaa ttgcattctg 2160  
aatgaataaa gggttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220  
aaaaaaaaaa aaaaaaaaaa aactcgag 2248

<210> 776

<211> 1605

<212> DNA

<213> Homo sapiens

<400> 776

aaggaagtca catggaagag gggcggtagt tggttgtggg cactgggtta gaggtatcac 60  
gtgggggcac tttcgtctta gcttttggac aagacgcagg cgcaaccac ggctgctgcg 120  
gggatccttg tggcccttcc ggtcgrtgga accaatccgt gcacagagaa gcggggcgaa 180  
ctgaggcgag tgaagtggac tctgagggct accgctaccg cactgctgc ggaggggcg 240  
tggaggcgag agggccgcgg agggcgagcgt tgcaaacatg gctcagagca gagacggcg 300  
aaaccgctt gccgagccca gcgagcttga caacccttt caggacccag ctgtgatcca 360  
gcaccgacc agccggcagc atgccacgct tgacgtctac aacccttttg agaccgggga 420  
gccaccacca gcctatgagc ctccagcccc tgccccattg cctccaccct cagctccctc 480

```

cttgcagccc tcgagaaagc tcagccccac agaacctaa gactatggct catacagcac 540
tcaggcctca gctgcagcag ccacagctga gctgctgaag aaacaggagg agctcaaccg 600
gaaggcagag gagttggacc gaaggagcga gagctgcagc atgctgccct gggaggcaca 660
gctattcagc cctgcttttt ccaggacatc tccatggaga tcccccaaga atttcagaag 720
actgtatcca ccatgtacta cctctggatg tgcagcacgc tggtctttct cctgaacttc 780
ctcgctgccc tggccagctt ctgtgtggaa accaacaatg gcgcaggctt tgggctttct 840
atcctctggg tcctcctttt cactccctgc tcctttgtct gctggtaccg ccccatgtat 900
aaggctttcc ggagtgcagc ttcatccaat ttcttcgttt tcttcttcat tttcttcgtc 960
caggatgtgc tctttgtcct ccaggccatt ggtatcccag gttggggatt cagtggctgg 1020
atctctgctc tgggtgtgcc gaaggcaaca cagcagtatc cgtgctcatg ctgctggctg 1080
ccctgctctt cactggcatt gctgtgctag gaattgtcat gctgaaacgg atccactcct 1140
tataccgccg cacagggtgc agctttcaga aggccagca agaatttgct gctggtgtct 1200
tctccaaccc tgcggtgcga accgcagctg ccaatgcagc cgctggggct gctgaaaatg 1260
ccttccgggc cccgtgacc ctgactggga tgccctggcc ctgctacttg agggagctga 1320
cttagctccc gtccctaagg tctctgggac ttggagagac atcactaact gatggctcct 1380
ccgtagtgct cccaatccta tggccatgac tgctgaacct gacaggcgtg tggggagtgc 1440
actgtgacct agtcccccca tcaggccaca ctgctgccac ctctcacacg ccccaaccca 1500
gcttccctct gctgtgccac ggctgttgct tcggttattt aaataaaaag aaagtggaac 1560
tggaactgaa aaaaaaaaaa aaaaaaaaaa aaaaagggsg gccgc 1605

```

<210> 777

<211> 1808

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1806)

<223> n equals a,t,g, or c

<400> 777

```

gaagaccggt ccggaattcc cgggtcacca cgmgtccacc agcacagcaa acccgccggg 60
atcaaagtgt accagtcggc agcatggcta cgaaatgtgg gaattgtgga cccggctact 120
ccaccctctt ggaggccatg aaaggaccca gggaagagat cgtctacctg ccctgcattt 180
accgaaacac aggcactgag gcccagatt atctggccac tgtggatgtt gaccccaagt 240
ctccccagta ttgccaggtc atccaccggc tgcccatgcc caacctgaag gacgagctgc 300
atcactcagg atggaacacc tgcagcagct gcttcggtga tagcaccaag tcgcgcacca 360
agctgggtgct gccagtcctc atctcctctc gcattctatgt ggtggacgtg ggctctgagc 420
ccggggcccc aaagctgcac aaggtcattg agcccaagga catccatgcc aagtgcgaac 480
tggcctttct ccacaccagc cactgcctgg ccagcgggga agtgatgatc agctccctgg 540
gagacgtcaa gggcaatggc aaagggggtt ttgtgctgct ggatggggag acgttcgagg 600
tgaaggggac atgggagaga cctgggggtg ctgcaccgtt gggctatgac ttctgggtacc 660
agcctcgaca caatgtcatg atcagcactg agtgggcagc tcccaatgtc ttacgagatg 720
gcttcaaccc cgctgatgtg gaggtggac tgtacgggag ccacttatat gtatgggact 780
ggcagcgcca tgagattgtg cagaccctgt ctctaaaaga tgggcttatt cccttgagaga 840
tccgcttctt gcacaaccca gacgtgccc aaggctttgt gggctgcgca ctcagctcca 900

```

ccatccagcg cttctacaag aacgagggag gtacatggtc agtggagaag gtgatccagg 960  
tgcccccaa gaaagtgaag ggctggctgc tgcccgaaat gccaggcctg atcaccgaca 1020  
tcctgctctc cctggacgac cgcttcctct acttcagcaa ctggctgcat ggggacctga 1080  
ggcagtatga catctctgac ccacagagac ccgcctcac aggacagctc ttctctggag 1140  
gcagcattgt taagggaggc cctgtgcaag tgctggagga cgaggaacta aagtcccagc 1200  
cagagccctt agtggccaag ggaaaacggg tggctggagg ccctcagatg atccagctca 1260  
gcctggatgg gaagcgctc tacatcacca cgtcgctgta cagtgcctgg gacaagcagt 1320  
tttaccctga tctcatcagg gaaggctctg tgatgctgca ggttgatgta gacacagtaa 1380  
aaggaggggt gaagtgaac cccaacttcc tgggtggactt cgggaaggag ccccttggcc 1440  
cagcccttgc ccatganstc cgctaccctg ggggcgattg tagctctgac atctggattt 1500  
gaactccacc ctcatcacc acactcccta ttttgggccc tcaactcctt ggggacctgg 1560  
cttcattctg ctctctcttg gcacccgacc cttggcagca tgtaccacac agccaagctg 1620  
agactgtggc aatgtgtga gtcataata tttactgacc actgttgctt gttgctcact 1680  
gtgctgctt tccatgagct cttggaggca ccaagaaata aactcgtaac cctgtccttc 1740  
aaaaaaaaa aaaaaaaaaa aaaaaagggg ggcgctctaa aagatcctcc aagggccaaag 1800  
cttacnct 1808

<210> 778

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1479)

<223> n equals a,t,g, or c

<400> 778

ccgcggcgaa cggaagtga gcaggcgcg cggtcggcg cgcgaggcg cgactagggt 60  
gcagcgccag gtccggtgtt ggggtgtccg agttgccgcc ggagaggagt ggcctcgccc 120  
gcttgagttt tgattcatca tggataatct gtcacagaa gaaattcaac agagagctca 180  
ccagattact gatgagcttc tggaaagtac gaggagaatc ctgggttttag ccattgagtc 240  
tcaggatgca ggaatcaaga ccatcactat gctggatgaa caaaaggaa aactaaaccg 300  
catagaagaa ggcttgacc aaataaataa ggacatgaga gagacagaga agactttaac 360  
agaactcaac aaatgctgtg gcctttgtgt ctgcccattg aatagaacaa agaactttga 420  
gtctggcaag gcttataaga caacatgggg agatgggtga gaaaactcac cttgcaatgt 480  
agtatctaaa cagccaggcc cggtgacaaa tggtcagctt cagcaacca caacrggagc 540  
agccagtggg ggatacatta aacgcataac taatgatgcc agagaagatg aaatggaaga 600  
gaacctgact caagtggga gtatcctggg aaatctaaaa gacatggccc tgaacatagg 660  
caatgagatt gatgctcaa atccacaaat aaaacgaatc acagacaagg ctgacaccaa 720  
cagagatcgt attgatattg ccaatgccag agcaaagaaa ctcatgaca gctaaagcta 780  
ctgctgttct tctttatcat ttattcactt ccgtagctcc tcttgaaaag ttattacctt 840  
ttcagagttt aagttttcgg ttccacgstc ttctaatttg gagataatat ggaagaaggg 900  
ccagagcagt tacagccctc cttctttttt gttttctgtt gagggccgac tgctgctctg 960  
ccttccttct agtattttct ttctcaattc atacgcttag attggttttc atatgtcatg 1020  
tttagtggtt tcatcctcct catatacttc agcaggttct tttgctttca agatttgga 1080

```
gcattgccaa agacagccat gaagaaggaa gctgtagagg tgttttttgt tgttgtttat 1140
ttttgctttt gtggttgagg gaaggacaag agataagagg ttgttacctc agtaaaaacc 1200
ttcaggccac aaagcaaaaa gttgcatagc cacaacgaag atctagttgg atatagtttt 1260
tgattttaagt tgcagttata gccaatttag gctaattgctt ggttttggag cttttataca 1320
caacgttttt gtttaggcata acagttttgc aacctctgct ccaaagrgaa aaatagratg 1380
agttttcttt cttttttttt ttttngggag tcagagtctc gctcycytgk ccmrggctgg 1440
gagtgccawa ggcgcatctg gggctccact gccaacctnc cgcc 1484
```

<210> 779

<211> 1343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 779

```
ttaaataaac agatgctctc acctgggaag aggagacagg gaggggaacc aattgaagaa 60
agaggagaaa agtcttagag tgtggaaaag gcaaccaggt tggccgtaag gtgcctgctg 120
gaatgcgtgt gcctccacac gggctcgggc atccggactg ataaccagcc ggccagactg 180
agggatggaa ggcactgaga tgggggcccg tccaggcgga caccgcaga aatggagctt 240
tctgtggtct cttgcactct ggctgcctct tgccctctct gtgtctctct ttcttggtct 300
ctccctctct cctcctcagc ctggctcttc tctttggtgc acacttagtt attgttgtga 360
gcaatggaa gttcaaaggaa ctccctctcc agctctctct aatcttgga cacagcctaa 420
aaaggacaaa aagttagaag acagcatagc aactcagctc agggagctac cagagaaaaa 480
tagcaactga tgtgggtgct tttttttttt ttttaatttg aataaaaaga attagaagtg 540
atgtcccttt ataaaatgcc ttctccccct tccgcctac agtctcttcc tctccccctt 600
gaggggggaa agtggtataaa cctacagggt tgtgagtctg aaaagaggat cccctcacc 660
cccaccctgg gcagagcagt gggggttggg ggggtggaga gggggacaca gatcctggca 720
cactgtggat atttcttgca gattgcagtc tcttggtggc caaacagggt aggtagacta 780
tcgcctctgg caggtgccac cttttggtac caacatgttc tgaggtgtta ggatttgggt 840
tgggtttttt ttgtttgttt tttttttcct tttggctctt ttttttttct ctttttaag 900
aaaagctaaa ggccgctgtg agtcctggtg gcaggctctc catggatgta gcataatcga 960
gataattttt atactgcatt tttatggatt attttgtaat gtgtgattcc gtctgctgag 1020
gaggtgggag gggctccagg gaaagccacc caccttcagt gaggttgctc cccagctgag 1080
cgcaccgggc atgggatgtg gaggtggcg acacaccctg tgccctctca aggtggggcg 1140
cgtggggcgt ccagagtctc tctgggtctc agatgtccat ctgccacctc ttgtaaggc 1200
tctagccaga agggaggggtg agggtagaag aaagtattc ccgaagaaaa aaagaatgaa 1260
aagtcattgt actgaactgt ttttatattt ttaaaagtta ctatttaaag gtnaaaaaaa 1320
aagggggggc ccggtaccca att 1343
```

<210> 780

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (341)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (364)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (375)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (382)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (389)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (390)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (417)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (430)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (432)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<400> 780  
aattcggcac gagaggctag gcacagtggc tcacacctgt aatccttgca ttttggaagg 60  
ctgaggcagg aggatcactt taggcctggt gtgttcaaga ccagcctggt caacatagtg 120  
agacactgtc tctacaaaaa aaaggaagga agggacacat atcaaactgn aacaaaatta 180  
gaaatgtaat tatgttctaa gtgcctccaa gttcaaaact tattngaattg ttgagagttt 240  
ggttacggaa ttcggttngg ggggccaaaag ggttggtttta gntttttaat nccggtntnt 300  
ttcgggnaac ccttgggaat ttttggggct ccttgtagnn ncccccttt nggagggggg 360  
nntnnntttg ttttncncc nnggggggnn tttnttngg ggggancttt tttttcnccn 420  
ngttnggnrn nnnggttttt ttngggtttt ttt 453

<210> 781  
<211> 498

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (120)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (421)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (430)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (459)  
<223> n equals a,t,g, or c

<400> 781  
aatcggcac gaggtgctna tagtcccact acttgtgggg ctaaggcagg aggatcactt 60  
gagccccgga ggtcgaggct acagtgagcc aagagtgcac tactgtactc cagccagggn 120  
aagagagcga gaccctgtct caataaataa ataaataaat aaataaataa ataaataaaa 180  
acaaagttga ttaagaaagg aagtataggc caggcacagt ggctcacacc tgtaatcctt 240  
gcatttttga aggctgaggc aggaggatca ctttaggcct ggtgtgttca agaccagcct 300  
ggtcaacata gtgaggacac tgtctcttac caaaaaaagg agggaaggga cacatttcaa 360  
atgaaacaaa ttagaatggt atttatgttc taagtgcctc cagttcaaaa ttttttggat 420  
ntttgagntn tggttacgga atacgttagg gggccaaang gatttgtaag tctttaatgc 480  
cgttttttca gaaaccta 498

<210> 782  
<211> 541  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (29)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (350)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (371)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (390)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (396)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<400> 782

```
acacctaaat gtttttattt ttgagaagng gggacagagt ctactatgt caccaggct 60
ggagtgaat ggcattgatc cagctcactg caaccttcgc ctctgggtt caagcgattc 120
tcctgcctcc gcctcctgag tagctgggat tataggcaca caccaccacg ccagctaat 180
tttttgtatt tttagtagag acagagtctt accatgttgg ccaggctggt cttggaactc 240
ctggaccttg tggatccacc cacctcgcc tcccagagtg ctggggatta cagggcattg 300
gccaccacgg cttgggctna aggaacacct aanttttatg tttcttggn tcaaaaacca 360
gtttccattc nnangttgtc ctcaacaan ggttantggt ggtggagaca gcaggggagg 420
gaggggaagag ngtggtttgt aantggttca antcaggcan taagcgattt tagctttaat 480
ttaaagtctt cngtccagnt ttaagcactt ggtaagacag ggctggaagt agcttttcna 540
a
```

541

<210> 783

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (30)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (33)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (150)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (199)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (352)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (426)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (435)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<400> 783

gggtcgaccc acgcgtccgc gatgncgngn canacttccg gtgtgggtga cgagtgggtgg 60  
ccgaagcagg gggacagcaa gggacgctca ggcgggcgac catggcggac ggcggctcgg 120  
agcgggctga cgggcgcacg gtcaagatgn aggtggacta cagcgccacg gtggatcagc 180

gcctacccga gtgtgcgant agccaaggaa ggaagacttc aagaagtcac tgaaaccctt 240  
ctctctctgg aaaagcagac tcgtactgct tccgatatgg tatcgacatc ccgtatctta 300  
gttgccagta gtggaagatg tgctaatan ggctaaaaga atgggattta anttaatgna 360  
aaatgattat gcntttgtcc caaaaggcgg attcagttta aaacaagctg ttgccccaaa 420  
tggttncaac atggncgtac nttatgtttg aaggaaantc acagaacntt cccatccaaa 480  
cnttngattn aattgataat cccacgaatg ggtttaccga ggccaagatt ttatgttgga 540  
aatggagcgt gcgnactgga tcaaaacctt agccacnatt aaagga 586

<210> 784

<211> 226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<400> 784

ggccggggac ggtgtgagan cggtaagatg gcggcgggcg cggtggtgga gttccagaga 60  
gccagctctc tactcagcac cgaccgggag gcctccatcg acatcctcca ctccatcgtg 120  
aagcgtgaca ttcaggaaaa cgatgaagag gcagtgcagg tcaaagagca gagcatcctg 180  
gaactgggat ctctcctggc aaagactnga caagctgcag agctta 226

<210> 785

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (254)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (341)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<400> 785  
ccgggntccc gccaccaccg cgcgcggggac agattgattc actttggagc tgtaagtact 60  
gatgtattag ggtgcagcgc tcattgttcc ttgacgcaga gtcccaaaat gaatatccaa 120  
gagcaggggt tccccttgga cctcggagca agtttcaccg aagatgctcc cccgancccn 180  
agtgcctggt gaggagggag aactggtgtc cacagaccgc agggcccgcca gctacagttt 240  
ctgctccggg naangtggtg gcattaaagg tgagacttcg acggccactc cgaagcgctc 300  
ggntctngac ctgggggtatg agcctgaggn agtgcttccc naaccancca taattt 356

<210> 786  
<211> 512  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (32)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (58)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (179)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (267)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (318)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (338)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (354)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (458)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (486)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (508)  
<223> n equals a,t,g, or c

<400> 786  
ggcagagcct gacggcagcc acccggtggt gntggcgccc tacaacggcg ggccggcnng 60  
cacgtgcccc aagatcaagc aggaggcggt ctcttcgtgc acccacttgg gcgctggacc 120  
ccctctgcag caatggccac cggcggggctg ccacacggac ttccccctgg ggacggcant 180  
tccccagcag gacttaccce ggaccctggg tcttgaggga agtgctgagc agcaggggac 240  
tgttcaccct gccctgccgg tttcctnccg ggtttccatc cccaccggg ggcccaattt 300  
acccatnnct ttcctngncc ccattcagat gcagccgnaa gttnccgnc gttncattaa 360  
ccaaggggtt tatgccaacc ggttnctgga tgccaaagga ggcccaagtc aaaggggggn 420  
aaggagggtt tgggccccgg aaaaggaccg gcaaccanat tttgattang gggtttgga 480  
aaaacnttca aaaaaggggg tttcccantt tt 512

<210> 787

<211> 339  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (248)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (292)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (332)  
<223> n equals a,t,g, or c

<400> 787  
gctgcgcgcc cgcggagcgg cctggggccgg cggcctcctg catcgggcgg ccccctgcag 60  
cctcctgccc aggcctccgga catggacatc ttccagcaac agatctcgag aagacagctg 120  
gctaaaaatcc ttatttgctc ggaaagttga tccaagaaaa gatgcccact ccaatctcct 180  
atccaaaaaag gaaacaagca atctatacaa attacagttt cacaatgtta aaccggaatg 240  
cctagaanca tacaacaaaa tttgtcaaga ggtgttgcca aagattcacg annnataaac 300  
actacccttg tactttgggtt ggggggacttg gnaacacgt 339

<210> 788  
<211> 405  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (355)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (386)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (392)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (397)  
<223> n equals a,t,g, or c

<400> 788  
gcggcagcct tttcccgcg c gtgctgcctt cgccgctcgg gccgcccggg ggaaaacatg 60  
gcgtctgccc tggagcagtt cgtgaacagt gtccgacagc tctcagctca aggtttgtga 120  
agttttctat gccagtggt cctgacttcg aaacgctatt ctacaggtt cagctcttca 180  
tcagcacttg taatggggag cacattcgat atgcaacaga cacttttgct gggctttgcc 240  
atcagctaac aaatgcactt gtggaaagaa aacagcccct gcgaggaatt ggcattcctta 300  
agcaagccat agacaagatg cagatgaata caaaccagct gacctcaata catgntgatc 360  
tctgccagct tgtttgctag caaaangnct tnagctngcc cttca 405

<210> 789  
<211> 518  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (413)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (450)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (479)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (501)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (515)  
<223> n equals a,t,g, or c

<400> 789  
tgcgccaagc tctaatacga ctactatag ggaaagctgg tacgcctgca ggtaccggtc 60  
cgggaattcc cgggtcgacc cagcgctccg ctctctgccc tcgcgtttgc acctcgctgc 120  
tccacctctg gggcgcatc caaccttcca gcctgcgacc tgcggagaaa aaaaattact 180  
tattttcttg ccccatatc accttgaggc gagcaaaaaa attaaatttt aaccatgagg 240  
gaaatcgtgc acatccaggc tggtcagtgt ggcaaccaga tcggtgccaa gttctgggag 300  
gtgatcagt atgaacatgg gcatcgaccc caccgggcac ctaccacggg ggacagcgac 360  
ctgccagctg ggaccgcatn ttctgtgtac tgacaatgga agccacaggt ggnaaatgat 420  
gtttcctcgt ggccatcctg gtgggatctn agaacctggg naccatggaa tctgggtgng 480  
ttcaggtccc ttttgggcca ntgttttaga ccagngaa 518

<210> 790  
<211> 386  
<212> DNA  
<213> Homo sapiens

<400> 790  
cgcgaatcgc agctttctgag accagggttg ctccgtccgt gctccgcctc gccatgactt 60  
cctacagcta tcgccagtcg tcggccacgt cgtccttcgg aggcctgggc ggcggtccg 120  
tgcgttttg gcccgggggc gcttttcgag cccccagcat tcacgggggc tccggcgggc 180  
gcggcgatc cgtgtcctcc gcccgccttg tgtcctcgtc ctctcgggg ggctacggcg 240  
gcggctacgg cggcgctctg accgcgtccg acgggctgct ggcgggcaac gagaagctaa 300  
ccatgcagaa cctcaacgac cgcctggcct cctacctgga caaggtgcgc gccctggaag 360  
cggccaacgg cgagctagag gtgaaa 386

<210> 791  
<211> 470  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (112)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 791

```
tcgacccacg cgtccgccca cgcgtccgag tgggtctgagg aacagctgat tgctgcaaaa 60
ttttgctttg ctggacttct tataggccag actgaagtgg atatcatgag tnatgctaca 120
caggctatat ttgaaatact ggagaaatcc tggttgcccc agaattgtac actgggtgat 180
atgaagattg aatttggtgt tgatgtaacc accaaagaaa ttgttcttgc tgatgttatt 240
gacaatgatt cctggagact ctggccatca ggagatcgaa gccaacagaa agacaaacag 300
tcttatcggg acctcaaaga agtnactcct gaagggtccc aaatggtaaa gagaaacttt 360
gagtggggttg cagagagagt agagttgctt ttgaaatcag anagtcagtg cagggttgta 420
gtgttgangg gctctacttc tgatcttggt cactgtgaaa aaatccagga 470
```

<210> 792

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 792

```
gtggacatcc gcaaagacct gtacgccaac acggtgctgt cgggcggcac caccatgtat 60
ccgggcattg ctgacaggat gcagaangag atcaccgccc tggcgcccag caccatgaag 120
atcaagatca tcgcaccccc agagcgcaag tactcgggtg ggatcgggtg ctccatcctg 180
gcctcactgt ccaccttcca gcanatntgg attacaagca ggagtacnac aantcgggnc 240
cctccatcgt ccaccgcaaa tgcttctaac ngactcnan atgcttacca ttgctgcatg 300
ggttaattaa naataaaaaan tttgcccttg gcaaatgcac acacctcatg cttacctccc 360
caaaattgga ataanccttc caaaaaaaaa ntgttcctta aaacttggtt tcttaatttc 420
nnccttgg                                     428
```

<210> 793

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (381)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (467)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (476)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (509)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (522)  
<223> n equals a,t,g, or c

<400> 793  
tgcgagaaga cgacagaagg ggcccgcagc gccggagtc aagccgggttc ccgcncagtc 60  
ccgtcctgca gcagtctgcc tcctctttca acatgacaga tgccgctgtg tccttegcca 120  
aggacttcct ggcagggtgga gtggccgcag ccattctcaag acggcggtan gcccatcgag 180  
cgggtcaagc tgctgctgca gttgcaatgc cagcaagcag atcactgcag ataagcaatg 240  
caaaggcatt atagactgcg tgggtccgtat tcccaaggag caggattctg tccttctggc 300  
gcngtactg gccatgtcat cagatantnc ccancagggt tcttaatttc gnccttcaag 360  
nttaatacaa gcanatnttc nggggtggtg tggnacanga gaaccattt tggggctaag 420  
ttgcagggaa tttgggcacg ggggtggtcc ncgggggcca aattccnggg ttttgngtaa 480  
cccctggaat ttgcccgtaa ccgtttaana ttgatttggg gnaaaa 526

<210> 794  
<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (377)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (434)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (443)  
<223> n equals a,t,g, or c

<400> 794  
ggcacgagtg cacctggagc tccaggaggc aagggtgatg ctggtgcccc tggatgaacgt 60  
ggacctcctg gattggcagg ggccccagga cttagagggtg gaactgggtcc ccctgggtccc 120  
gaaggaggaa aggggtgctgc tggtcctcct gggccacctg gtgctgctgg tactcctggt 180  
ctgcaaggaa tgcctggaga aagaggaggt cttggaagtc ctggtccaaa gggatgacaag 240  
ggtgaaccag gcggtccagg tgctgatggt gtcccaggga aagatggccc aagggggtcct 300  
antggtccta ttggtcctcc tggcccagtt ggccagcctg gagataaagg gtgaagggtgg 360  
tgcccccgga tttccangta taagttggac ctgtggtgag cctggtgaga gaggtgaaat 420  
ggccttnacg gacngttggt ttncctgggt ttctctgga 458

<210> 795  
<211> 497  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (182)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (238)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (369)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (375)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (383)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (397)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c



<400> 795

```
aattcggcan aggnctaagg gagctgacgg agagggccac cgcccagcaa tagacggtgt 60
ctcagcctgc cgagccgcag tttccgtggt gtgagtaagt ccgggcccgt gtccccctctc 120
ccgccgccgc catgggctgc acgttgagcg ccgaagacaa ggccggcagt gagcgatgaa 180
gnatgatcga ccgcaactta cgggaggacg gggaaaaagc ggccaaagaa gtgnaagntg 240
ctgctacttc ggtgctggag aatctggtta aaagcaccat ttgtgagaca gatgaaaatc 300
atttcacgag gntgggtatt cagaggtnga atgttaaaca atattaaagt tagttntttt 360
ncagcatnnt tgttncagt ccntcattgc aatnttnagt ggccttgga ngggtnaaaa 420
aattgatttt ggggaantnt cncagggcaa ttgttgccc gcaattnttt nttntagntn 480
gtcanttttt tngaggg                                     497
```

<210> 796

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (408)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (442)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (460)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c

<400> 796  
ggcacgaggt gtgcggcggt tccctgggtcc cggcgggtccc ccagcccag ggcggacaacc 60  
tgacgctgcg gtaccgggtcc ctggtgtacc agctgaactt tgatcagacc ctgaggaatg 120  
tagataaggc tggcacctgg gccccccggg agctgggtgct ggtgggtccag gtgcataacc 180  
ggcccgaata cctcagactg ctgctggact cacttcgaaa agcccaggga attgacaacg 240  
tcctcgatcat ctttagccat gattctgggc gaccgagatc aatcagttga tcgccggggg 300  
tgantttctgt tccggttttg cagggtgtttn tttncntttc aagcattcaa ttgttancct 360  
aacgagtttt ccagtaagtg gaccncagag gatttntccc agagaacntn ccgaagaatg 420  
cccttttttna aattgggggc ancaaattga ggtttcccgn tttttgggca tttaaggggg 480  
gggcnaattt ttccagg 497

<210> 797  
<211> 589  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (241)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (423)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (485)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (493)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (495)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (536)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (538)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (580)  
<223> n equals a,t,g, or c

<400> 797  
actagtctcta gatcgcgagc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 60  
gacgtcatag ctcttctata gagtcaccta aattcaattc actggccgtc gttttacaac 120  
gtcgtgactg ggaaaacctt ggcgttaccc aacttaatcg ccttgcagca cateccccctt 180  
tcgccagctg gcgtaatagc gaagaggccc gcaccgatcg cccttcccaa cagttgcgca 240  
nctgaatggc gaatgggacg cgccctgtag cggcgcatca agcgcggcgg gtgtgggtggt 300  
tacgcgcagt gaaccgctac acttgccagc gccctagcgc ccgctccttt cgctttcttc 360  
ccttcctttc tcgccacggt cgccggcttt ccccgctcaag ctctaaatcg ggggctcctt 420  
tanggttccg atttagtgct ttacgggcac ctcgacccca aaaaaacttg attangggta 480  
atggntcacg tantngggcc atcgccctga tagacggttt ttcgcctttg acgttngngt 540

ccacgttctt aataagtggg atcttggtca aaactggaan aacactcaa

589

<210> 798

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<400> 798

ctctaataana tcatatagga agnggtanct gcagtacggt cngaattccc ggctctagag 60  
atccaagctt acgtacngcg catgcacgctc atagctcttc tatagtgtca cctaaattca 120  
attcactggc cgtcggttta caacgtcgtg actgggaaaa cncntngnn 169

<210> 799

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 799

ctctagagga tccaagctta cgtnngcgtg catgcgacgt catagctctt ctatagtgtc 60  
agctaaattc aattcactgg ccgctcggtttt acaacgtcgt gantgggaan nc 112

<210> 800

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (416)  
<223> n equals a,t,g, or c

<400> 800  
gttgactgag acacgcttca aaactggaac tactctgaaa tacacctgcc tccctggcta 60  
cgtcagatcc cattcaactc agacgcttac ctgtaattct gatggcgaat ggggtgtataa 120  
caccttctgt atctacaaac gatgcagaca cccaggagag ttacgtaatg ggcaagtaga 180  
gattaagaca gatttatctt ttggatcaca aatagaattc agctgttcag aaggattttt 240  
cttaattggc tcaaccacta gtcgttgtga agtccaagat agaggagttg gctggagtca 300  
tcctctccca caatgtgaaa ttgtccaagt gtaagcctcc tccagacatc aggaatggga 360  
aggcacagcg gnngaagaaa atttctacgc ntaanggggt ttctgtcacc taaagntggg 420  
accc 424

<210> 801  
<211> 249  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (36)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (63)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (101)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (113)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (157)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (179)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (242)  
<223> n equals a,t,g, or c

<400> 801  
ggcaggtcca cctggaccag gtggaggtgg ccagcnggct gaccctgtgc aaggagggct 60  
gtnaggccat tgtngacaca ggcacttccc tcatgggtggg nccggtggat gangtgcgcg 120  
antgcagaag gccatcgggg ccgtgccgnt gattcanggc gagtacatga ncccctgtna 180  
gaaggtgtcc accctgcccc caatnacact gaagctggga ggcaaaggct acaagctgtc 240  
cncagagga 249

<210> 802

<211> 402  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (147)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (149)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (310)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (383)  
<223> n equals a,t,g, or c

<400> 802  
accacgcgt ccgcccacgc gtcccggacg cgtggggtcga cccagctttc tagggcccta 60  
gaaactctga caggtgcctt attccagcga cccccactta ttgctgcagt aaagaggcag 120  
ctccgagtga ggaccatcta cgagagnana aatgattgaa tacgatcctg aaagaagatt 180  
aggaatcttt tgggtgagtt gtgaggctgg cacctacatt cggacattat gtgtgcacct 240  
tggtttgtta ttgggagttg gtggtcagat gcaggagctt cggaggggtc gttctggagt 300  
catgagtgan aaggaccaca tngtgacaat gcatgatgtg cttnatgctc agtggctgta 360  
tgntaaccac aaggatgaga gtnacctgcg gggagttcgt ta 402

<210> 803  
<211> 542  
<212> DNA



<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (488)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (500)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (501)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (507)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (527)  
<223> n equals a,t,g, or c

<400> 803

```
ggcacagctt ccgctttacc cgtctccctc ctggcgcttg tcctcctctc ccagtcggca 60
ccacagcggg ggctgccggg cgtgggtgctg gtgggtcggt tggtttttgt ctcaccgttg 120
gntnccgtgc cgttcagttg cccgccatgg ctgagctgga tccgttcggc gcccctgccg 180
gcgcccctgg ggtncgcgcg ctggggaacg gatgnccggc gccggcggaag aagacccggc 240
tgcggccttc ttggcgcaaa gnagaagcga gattgcgggc atcgagaacg acgaggcctt 300
cgccatcctg gaacggcggc gccccggggc cccaaccgca aggaaagtcc ggcgnggggt 360
tccgatgctg ttgnatggan taatgnaatg gtggattatn acnagnaaat taatgggtcc 420
aacanaaatt atgcagtatt tcaaaatgga tcgattgcat caaaacctga aatatcctaa 480
atggaganag aaaatggaan nttgaancct taagccaatt tcggaancaa aaacaaatgg 540
```

aa

542

<210> 804  
<211> 422  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (65)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (66)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (67)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (116)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (229)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<400> 804  
agangaccgg cagcctgtac ctgggcagca gatgaccctg aagatagagg gtgaccacgg 60  
ggacnnncn ng tactggtg gccgtggaca agggcgtgtt cgtgctgaat aagaanaaca 120  
aactgacgca gagtaagatc tgggacgtgg tggagaaggc agacatcggc tgcaccccg 180  
gcagtgggaa ggattacgcc ggtgtcttct ccgacgcagg gctgaccnnc acgagcagca 240  
gtggccagca gaccgcccag anggcagaac ttcagtgtccc gcagccagcc gcccgcggac 300  
gcngttccgt gcagctcacg gagaagcgaa tggacaaagt cggcaagtac cccaaggagc 360  
tgngcaagtg ctgcgaggac ggcattcggg agaaccccat gaagttctcg tgccagggcg 420  
gg 422

<210> 805  
<211> 566  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (342)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (519)  
<223> n equals a,t,g, or c

<400> 805  
cgagctgacc ctgatcaggg ccgagttgtc tcggcggcgc tgccgaggcc tccacccggg 60  
gaggggtggtt accgctgagg agctgcagtc tctgtcaaga tgatagaggt actgacaaca 120  
actgactctc agaaactgct acaccagctg aatgcctgtt tggaacagga gtctagatgt 180  
cagccaaagg tctgtggttt gagactaatt gagtctgcac acgataatgg cctcagaatg 240

actgcaagac taagggactt tgaagtaaaa gatcttctta gtctaactca gttcttggt 300  
tgacacagag acatttctct agctgtgaat tactggacag antcctgtct aaaatgaang 360  
tacagcccaa gcacctgggt gtgttggtact gagctgcttt tatttggtg taaaatcaat 420  
agaagaggaa aaggatgtcc cattggcaac tgacttgatc cgaataagtc aatataaggt 480  
tacgggttca gactgatgag aatgggaaaa attgtattng agaaggtgtg tttggaagtc 540  
aagctactaa tgcctttcaa ttctgc 566

<210> 806

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 806

cccagtccta gctgctggca tcactatact actaacagac cgcaacctca acaccacctt 60  
cttcgacccc gccggaggag gagaccccat tctataccaa cacctattct gatttttcgg 120  
tcaccctgaa gtttatattc ttatcctacc aggccttcgga ataactctccc atattgtaac 180  
ttactactcc ggaaaaaaag aaccatttgg atacataggt atggtctgag ctatgatatc 240  
aattggcttc ctaggggtta tcgtgtgagc acaccatata tttacagtag gaatagacgt 300  
agacacacga gcatatttca cctccgctac cataatcatc gcttatcccc accggcggtca 360  
aagtattagc tgactcgcca canttccacg ggagcaatat gaaatgatct ggctgcagtg 420  
ctctgagncc taaggant 438

<210> 807

<211> 236

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (231)  
<223> n equals a,t,g, or c

<400> 807  
ctcgtgccga attcggcacg agaaactttc ctcactatct gcttcatccg ccaactaata 60  
tttcacttta catccaaaca tcactttggc ttccaagccg ccgcctgata ctggcatttt 120  
gnacatgtgg ttgactatn tccgtatgtc tccatctatt gatgagggtc ttaaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaancccncc ggggggggncc nggacc 236

<210> 808  
<211> 552  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (375)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (447)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (473)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (503)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (512)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (516)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (543)  
<223> n equals a,t,g, or c

<400> 808  
ggcacgagtg gagaaccggg cccagcagca ctggggcagt ggagtgggag tgaagaagct 60  
gtgtgaactg cagcctgagg agaagtgctg tgtgggtggc actctgttca aggccatgcc 120  
gctgcagccc tccatcctgc gggaggtcag cgaggagcac aacctgctcc cccagcctcc 180  
tcggagtaaa tacatacacc cagatgacga gctgggtcttg gaagatgaac tgcagcgtat 240  
caaaactaaaa ggcaccattg acgtgtcaaa gctgggttacg gggactgtcc tggctgtgtt 300  
tggctccgtg agagacgacg ggaagtttct ggtggaggat tattgctttg ttgaccttgc 360  
tccccagaag cccgnacccc cattgacaca gttaggttnt gttantggtg tccggccttg 420  
gcctgggttg cgttggaggc gagagcntgt tgggcaccca ttgttggtgg atntggtgac 480  
ggggcagttt ggggacgaag ggnagcatgc ancgngcca agtttcccgg ttatcctggt 540  
tgnaacttct aa 552

<210> 809  
<211> 380  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 809

```
ggcacgaggc tgaggcggcg ccagttggcc gggcacgggg ctgctgtaag gccgaggttg 60
cggcggaagc ggagaccatg ttccgagcgg cggctccggg gcagctccgg cgggcggcct 120
cattgctacg atttcagagt accctggtaa tagctgagca tgcaaagat tccctagcac 180
ccattacttt aaataccatt actgcagcca cagccttgagg aggtgaagtg tcctgcttag 240
tagctggaac caaatgtgac aaggtggcac aagatctctg taaagtagca ggcataagcaa 300
aaagtctctg tggctcagca tgaatgtgta caagggttta cttccagang gaactgaana 360
cnaatatttt tggaaactcn                                     380
```

<210> 810

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<400> 810  
aagaaagtag aggacatgat gaagaagctg tggggtgacg gcccagaagt accgctgcga 60  
gctcctgtac gaggggcccc cggacgacga ggctgccatg ggcattaaaa gctgtgaccc 120  
caaaggccct cttatgatgt atatttccaa aatgggtgcca acctccgaca aaggtcgggtt 180  
ctacgccttt ggacgagtct tctcggggct ggtctccact ggctgaagg tcaggatcat 240  
ggggcccaac tatacccctg ggaagaagga ggacctctac ctgaagccaa tccagagAAC 300  
aatcttgatg atgggcccgt aagtggaaagc ccacggaagg atgtgccttg tngggacatt 360  
ttgggcctcg tggcggttga ccantccttg tgaaaacggg naccannaac aacttc 416

<210> 811  
<211> 748  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (543)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (619)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (668)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (671)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (714)  
<223> n equals a,t,g, or c

<400> 811  
gccgcccagc cagcctcat ggagcccatc taccttgtgg agatccagt tccagagcag 60  
gtggtcggtg gcatctacgg ggttttgaac aggaagcggg gccacgtgtt cgaggagtcc 120  
caggtggccg gcacccccat gtttgtggtc aaggcctatc tgcccgtcaa cgagtccttt 180  
ggcttcaccg ctgacctgag gtccaacacg ggcgggccagg cgttccccca gtgtgtgttt 240  
gaccttggc agatcctgcc cggagacccc ttcgacaaca gcagccgccc cagccagggtg 300  
gtggcggaga cccgcaagcg caagggcctg aaagaaggca tccctgccct ggacaacttc 360

ctggacaaat tgtaggcggc ccttcctgca ggcctgccc ccccggggac tcgcagcacc 420  
cacagcacca cgtcctcgaa ttctcagacg acacctggag actgtcccga cacagcgacg 480  
ctccccctgag aggtttcttg ggcccgtgc gtgccatcac tcaaccataa cacttgatgc 540  
cgnttctttc aatattttatt tccagagtcc ggaggcagca gacacgccct cttagtaggg 600  
acttaatggg ccggtcgng agggggaggc gggatgggac acccaacact tttttcattt 660  
cttcagangg naaacttcag atgtccaaac taattttaac aaacgcatta aganggttaa 720  
tttgggtaca atgggccga atggcttt 748

<210> 812

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 812

aagnnganac aaccctcact aaaggggaaca aaagctggag ctccaccgcg gtgcggccgc 60  
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcacaat ttgcgcgctc 120  
tctttctgct gctccccagc tctcggatac agccgacacc atgggtttcg gagacctgaa 180  
aagccctgcc ggccctccagg tgctcaacga ttacctggcg gacaagagct acatcgaggg 240  
gtatgtgcc aacaaagcag atgtggcagt atttgaagcc gtgtccagcc caccgcctgc 300  
cgacttggt catgccctac gttggtataa tcacatcaag tcttacgaaa aggaaaaggc 360  
cagcctgcc ggagtgaaga aagctttggg caaatatggt cctgccgatg tggaagacac 420  
tacaggaagt ggagctacag atagtaaaga tgatgatgac attgacctct ttggatctga 480  
tgatgaggag gaaagtgaag aagcaaagag gctaagggaa gaacgtcttg cacaatatga 540  
atcaaagaaa gccaaaaaac ct 562

<210> 813

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (27)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (48)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (69)  
<223> n equals a,t,g, or c

<400> 813  
gaaaataagn gatgntcgan gtgaaanacc atactaaagg gncaaaantn gantcaccgc 60  
gggtgcggcng tctagactag tggatcccc gggctgcagg aattggcacg aggttagttt 120  
ctgcgacttg tggtgggact ggaagatgtc ttcaggaaat gctaaaattg ggcaccctgc 180  
ccccaaacttc aaagccacag ctgttatgcc agatgggtcag tttaaagata tcagcctgtc 240  
tgactacaaa ggaaaatatg ttgtgttctt cttttaccct cttgacttca cttttgtgtg 300  
ccccacggag atcattgctt tcagtgatag ggcagaagaa tttaagaaac tcaactgcc 360  
agtgattggt gcttctgtgg attctcactt ctgtcatcta gcatgggtca ataca 415

<210> 814  
<211> 316  
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (177)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (186)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (195)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (304)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (314)  
<223> n equals a,t,g, or c

<400> 814  
aaagggacaa aagcnggagc nccaccgcgg ggcgnccgct ctagaactag tggatccccc 60  
gggctgcagg aattcggcac agctntgggg gantcctggt gcacccccan ngggtctnct 120  
ntgctgccca ttgcctaaag aagaatagcc aggnctggct gggtcggcac aacctgnttg 180  
agcctnaaga cacangccag agggctccctn tcagccacag cttcccacac ccgctctgac 240

aatantnagc ctttctgaag catcaaagcc ttagaccagn tgaagactcc agccatgacc 300  
tcangctgct ccgnct 316

<210> 815  
<211> 507  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (309)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (358)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 815

```

ggcacagcnc gcatgggctg cgggggccgcg cgagctcgcc tccgtcctct gcctccgcag 60
aacgccgcga tggctgcgca gggagagccc caggtccagt tcaaagtagg taaccctgcg 120
ggcgggagggc ggccgagccc gaccgcgtgc gactcgcggg tccctcctcc tggggccacg 180
atggctgtaa tggggccccc catccacatt ctttgtttta agtgagcctg tgggtggttaa 240
agttccgtga ctctgggatc ttganaggtg aatgtttang gtttacttcc aaaatgtggt 300
tttcaacanc ttgtaatggt tggatgatgg ggtaanggga aaaacgacnt cgtggaantg 360
catttgactg gtggaatttg agaanaatgt gttagccanc ttgggtgttg gaggttcaac 420
ccccaatggt tccacancaa cagaggaccc attaatgtca atgtantggg acacagccgg 480
ccaggngaatt tccgtggact ggaaann 507

```

<210> 816

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 816

```
cnagtgtaga cagcnaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtggg tcccccgggc tgcaggaatt cggcacgagc aggcattgcag 120
aaggctgacg tctatagctt tgggatcatc ctgcaggaga tagcacttcg cagtggtcct 180
ttctacttgg agggcctgga cctcagcccc aaagagattg tccagaaggc acgaaatggt 240
cagcggccat atttccggcc aagcattgac cggaccaaac tgaatgaaga gctagttttg 300
ctgatggagc gatgttgggc tcaggaccca gctgagcggc cagactttgg acagattaag 360
ggcttcattc ggcgctttaa caaggagggt ggcaccagca tattggacaa cctcctgctg 420
cgcatggaac agtatgcca taacttggag aagctggtgg aggaacgcac acaggcctat 480
ctggaggaaa aacgcaaggc tgaagctctg ctctaccaa tcctaccca ttcagtggca 540
gagcagttaa a                                     551
```

<210> 817

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature



<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 817

```
gggagacatt naagannttc aaggatccca atgcacccaa gaggcctcct tcggccttct 60
tcctcttctg ctctgagtat cgcccaaaaa tcaaaggaga acatcctggc ctgtccattg 120
gtgatgttgc gaagaaactg ggagagatgt ggaataaacac tgctgcagat gacaagcagc 180
cttatgaaaa gaaggctgcg aagctgaagg aaaaatacga aaaggatatt gctgcatatc 240
gagctaaagg aaagcctgat gcagcaaaaa agggagttgt caaggctgaa aaaagcaaga 300
aaaagaagga agaggaggaa gatgaggaag atgaagagga tgaggaggag gaggaagatg 360
aagaagatga angatgnnna cacntg 386
```

<210> 818

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 818

```
ggcacgagaa aatgtcaggc ctgattatct aaaagctatt tggaatgtaa tcaactggga 60
gaatgtaact gaaagataca tggcttgcaa aaagtaaacc acgatcgta tgctgatcat 120
accctaataa tcccagcaag ataatgtcct ttcttctaag atgtgcatca agcctgggtac 180
```

```
atactgaaaa ccctataagg tcctggataa tttttgtttg attattcatt gaagaaacat 240
ttattttcca attgtgtgaa gtttttgact gttaataaaa gaatctgtca accatcaaaa 300
aaanaaaaaa aaaaaaacctg gggggggggcc ccgnanccna tttggccctt tgggggggggg 360
tntt                                     364
```

<210> 819

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (355)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (452)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (455)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (456)  
<223> n equals a,t,g, or c

<400> 819  
ntgatagaca agaangaaag taaccgcgnac taaagggaac aaaagcngga gctccaccgc 60  
ggtgccgncc gctctagaac tagtggatcc cccgggctgc aggaattcgg cacgagctcc 120  
gccagacagc gggncaaagt gctggcccat ttctatgggg tgaagctgga gggcaaggtg 180  
cccatgcaca agctgttctt ggagatgctc gaggccatga tggactgagg caaggggtgg 240  
gactggtggg ggttctggcc aggacctgcc ttagcatggg gtccagcccc aagggtctng 300  
gcggactggg gtctgggcat gccacagcct gctggcaggc cagggcagtc cntcncceng 360  
gggaacaggc cccacgcctt ttcttccctt tctaaggggt gttcaaaact gggaactttt 420  
ttccaggttt tgggcacatt gttgcccctt tnnanncata aa 462

<210> 820  
<211> 449  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 820

```
gcgcgcantc ccggctccct ccccttcgg atgtggcttg agctgtaggc gcggagggcc 60
ggagacgctg cagacccgcg acccgagca gctcggaggc ggtgaataat agctcttcaa 120
gtctgcaata aaaaatggcc tccaacaaaa ctacattgca aaaaatggga aaaaaacaga 180
atggaaagag taaaaaagtt gaagaggcag agcctgaaga atttgtcgtg gaaaaagtac 240
tagatcgacg tgtagtgaat gggaaagtgg aatatttcct gaagtggag ggatttacag 300
atgctgacaa tacttgggaa cctgaagaaa atttagattg tccagaattg attgaagcgt 360
ttcttaactc tcagaaagct ggcaaagaaa aagatggtac caaaagaaaa tctttatctg 420
acagtggatc tgatgacagc aaacaaaga                                449
```

<210> 821

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<400> 821

```
cgcgctccggc ctgactgctt gttcgtctna ctgggtgtgag ctccagcatc ccccttgctc 60
gaaatggacc ccaactgctc ttgcgccact ggtggctcct gcacgtgcgc cggctcctgc 120
```

```
aagtgc aaaag agtgcaaatg cacctcctgc aagaagagct gctgttcctg ctgccccgtg 180
ggctgtgcc aagtgtgccca gggctgcgtc tgcaaagggg catcggagaa gtgcagctgc 240
tgtgcctgat gtgggaacag ctcttctccc atatgtaaat agaacaacct gcacaacctg 300
gattttttta aaaatacaac actgagccat ttgctgcatt tcttttatac taaatatgtg 360
actgacaata aaaacaattt tgacttttaa anaaaaaaaa aggggggcct ttgggggtccc 420
tgggggccan ttnggggat cgggaaagtt tcc 453
```

<210> 822

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 822

```
gaactaatgt tagtataagt aacatgaaaa cattctcctc cgcataagcc tgcgtcagat 60
taaaacactg aactgacaat taacagccca atatctacaa tcaaccaaca agtcattatt 120
accctcactg tcaacccaac acaggcatgc tcataaggaa aggttaaaaa aagtaaaagg 180
aactcggcaa atcttaccct gcctgnntac caaaaacatc acctctagca tcaccagtat 240
tagaggcacc gactgcccac gtgacacatg tttaacggcc gcggtaccct aaccgtgcaa 300
aggtagcata atcacttggt ccttaattan ggacctgtat gaatggctcc acgaggggtc 360
aagctgnctc ttacttttaa ccagtgaaaa tgacctgncc gngaagaggc gggcataaca 420
cagcangacc aagaagaccc tatggagctt taatntatta ngcaaacagt ccta 474
```

<210> 823

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<400> 823

```
gcccacgcgt ccgcccacgc gtccgcctc tcccaacatg gcggcctcag caaaaaagaa 60
gaataagaag gggaagacta tctccctaac agactttctg gctgaggatg ggggtactgg 120
tggaggaagc acctatgttt ccaaaccagt cagctgggct gatgaaacgg atgacctgga 180
aggagatgtt tcgaccactt ggcacagtaa cgatgacgat gtgtataggc cgcctccaat 240
tgaccgttcc atccttccca ctgctccacg ggctgctcgg gaaccaata tcgaccggag 300
ccgtcttccc aaatcgccac cctacactgc ttttctagga aacctacctt atgatgttac 360
agaagagtca attaaggaaat tctttcgagg attaaatatc agtgcagtgc gtttaccacg 420
tgaaccacgc aatccagaga ngttgaaagg tttgggtatg ctg 463
```

<210> 824

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (46)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (88)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (126)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (203)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (209)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (231)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (234)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (250)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (253)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (287)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (329)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (414)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (423)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<400> 824

```
gctnagatnt tcccatatac tgtggacaat gcccgcatcg ttctgnagat tgacaatgcc 60
cgtcttgctg ctgatgactt tagaggcnag tatgagacag atctggccat gcgccantct 120
gtgganaacg acatccatgg gctccgaaag gtcattgatg acaccaatat cacacgactg 180
canctggaga cagagatcga ggntctnang gaggatctgc ttttcatgaa naanaaccac 240
taagaggaan gancaaggcc tacaagccca nattgccanc tctgggntga ccgnggaggt 300
anatgcncnc aaatctcang acctcgcnna gancatggga gacatcccgg cccaatatga 360
cnagctggct cntaagaacc gagangaagc tagaccagta ctggtcttaa acanattnan 420
ganagcacca cagtgggtcan cacacagtct gctgaagttg gaactgctga aacnacgctc 480
acaganctta gacgtacagg ccattccttg gaaatatgaa ctggacttca ttagaaatct 540
gaangccctc ttggaaaaca accttgacgg gaagtggang ncccgnatcg accttaca 599
```

<210> 825

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (428)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (460)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (463)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 825

```
aattcggcac gaggaggaat gttaagttga ttgccctttc aatagacagt gttgaggacc 60
atcttgccctg gagcaaggnt atcaatgctt acaattgtga agagcccaca gaaaagttac 120
cttttcccat catcgatgat aggaatcggg agcttgccat cctgttgggc atgctggatc 180
cagccagaga aggatgaaaa gggcatgcct gtgacagctc gtgtggtgtt tgtttttggg 240
cctgataaga agctgaagct gtctatcctc taccagcta ccaactggcag gactttgatg 300
agatctcagg gtagtccanc tctctccagc tgacanagaa aaagggttgc acccagttga 360
ttggaggntg ggataggtat ggcctccacc ncctgagaga gcaaaaattt tccgnagagn 420
tnacaagngt ccttgcagan actcgtaaac cagctaagtn tngagtggn ttngcaagtn 480
taatccattt ttngagatc                                     500
```

<210> 826

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (490)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (496)  
<223> n equals a,t,g, or c

<400> 826  
aatcggcac gagcaggctg cttcttcgcc agaaccaacc ggttgcttgc tgtcccagcg 60  
gcgccccctc atcaccgtcg ccatgcccgg aggtctgctt ctcggggacg tggctcccaa 120  
ctttgaggcc aataccaccg tcggccgcat ccgtttccac gactttctgg gagactcatg 180  
gggcattctc ttctcccacc ctcgggactt taccgccagt tgcaccacag agcttggcag 240  
agctgcaaag tggcaccaga atttgncaag aggnatgtta agttgattgc cctttcaata 300  
gacagtgttg aggaccatct tgcctggagc aaggatatca atgnttacia ttgtgagggg 360  
ccacagaaaag ttaccttttc ccatcatcgt gataggatcg gagttncat cctnttggna 420  
ngtnggtcca cagagaaggt gaaagggang cctttnagtc gtgtggngtt tttttggccc 480  
gtnagaagtn aagtgnatc ttaccagtac c 511

<210> 827  
<211> 519  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (186)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (479)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (487)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (500)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (517)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (519)  
<223> n equals a,t,g, or c

<400> 827  
tntnaacnga tttaggtgac actatagaag gtacgcctgc agtaccggtc cggaattccc 60  
gggtcgaccc acgcgtccgc cacggtccgc actgcctctt cccttctcgc ttgggaactc 120  
tagtctcgcc tcgggttgca atggacccca actgctcctg tgccgctgag gtgtctcctg 180  
cacctngcca gtcctgcaag tgcaaagagt gcaaatgcac ctctgcaag aagagctgct 240  
gtcctgctg cctgtggct gtgccaagtg tgcccagggc tgcattctgca aaggggcatc 300  
ggagaagtgc agctgctgcg cctgatgtcg ggacagccct gtcctcaagt acaaataagag 360  
tgacccgtaa aatccaggat tttttgtttt ttgtacaaat cttgaccctt ttgtacatt 420  
cctttttttc tgtgaaatat gtgaataata attaaacact tagacttgaa aaaaaaana 480  
aaaaaanaaa aaaggggggn ccttttttagg gggttcnncn 519

<210> 828  
<211> 442  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (21)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (25)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (128)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<400> 828  
ancagcgcac natngggaac ntggncgcct gcaggtaccg gaccggaatt cccgggtcga 60  
cccacgcgtc cgaggaggga cacgggtca ttgcggtgtg cgccctgcac totgtccctc 120  
actcgccncc gacgacctgt ctgcgccgagc gcacgccttg ccgccgcccc gcagaaatgc 180  
ttcggttacc cacagtcttt cgccagatga gaccggtgtc cagggtactg gtcctcatc 240  
tcaactcgggc ttatgccaaa gatgtaaaaat ttggtgcaga tgcccagacc ttaatgcttc 300  
aagggttaga ccttttagcc gatgctgtgg ccgttacaat ggggccaaaag ggaagaacag 360  
tgattattga gcagagttgg ggaagtccca aagtaacaag agatggtgtg actgttgcaa 420  
agtcattgac ttaaaagnaa at 442

<210> 829  
<211> 504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (35)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (139)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (489)  
<223> n equals a,t,g, or c

<400> 829  
aatcggcac gagcctgtnt cgccgagcgc acgcnttgcc gccgccccgc agaaatgctt 60  
cgggttaccga cagtctttcg ccagatgaga ccggtgtcca gggactggc tcctcatctc 120  
antcgggctt atgccaaana tgtaaaattt ggtgcagatg cccgagcctt aatgcttcaa 180  
gggtgtagacc ttttagccga tgctgtggcc gttacaatgg ggccaaaggg aagaacagtg 240  
attattgagc agagttgggg aagtcccaaa gtaacaaaag atgggtgtgac tggtgcaaag 300  
tcaattgact taaaagataa atacaaaaac attggagcta aanttggtca agatggtgcc 360  
antaacacaa ttgaggagct ggggatggca ntaccatgct actgttatgg cacgtctata 420  
gccaagggaag gtttcgagaa ggtagcaag gtgctaattcc atgggaatca ggagaggtgt 480  
gatgttagng ttgatgctgt attg 504

<210> 830  
<211> 582  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (15)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (30)  
<223> n equals a,t,g, or c

<400> 830  
gtcgtnacna nnntntatta aagggttcan aagctggagc tccaccgcgg tgcggccgct 60  
ctagaactag tggatcccc gggctgcagg aattcggcac aattcggcac gagggaaagg 120  
gctgtgtaat cattaaggag cggaggcttt tggagctgct aaaatgccgg attacctcgg 180  
tgccgatcag cggaagacca aagaggatga gaaggacgac aagcccatcc gagctctgga 240  
tgagggggat attgccttgt tgaaaactta tggtcagagc acttactcta ggcagatcaa 300  
gcaagttgaa gatgacattc agcaacttct caagaaaatt aatgagctca ctggtattaa 360  
agaatctgac actggcctgg ccccaccagc actctgggat ttggctgcag ataagcagac 420  
actccagagt gaacagcctt tacaggttgc caggtgtaca aagataatca atgctgattc 480  
ggaggaccca aaatacatta tcaacgtaaa gcagtttgcc aagtttgtgg tggaccttag 540  
tgatcaggtg gcacctactg acattgaaga agggatgaga gt 582

<210> 831  
<211> 385  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (98)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (142)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (274)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (358)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (373)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<400> 831  
cccacgcgtc cgcccacgcg tccggggcggg ggccgggtgcg gcgtgttcgg tggcgggtctt 60  
ggccgctcag gcgcctgcgg ctgggtgagc gcacgcangg cggcgaggcg gcacgtgttt 120  
ctagggtcgtg gcgtcgggct tncggagctt tggcggcact aggggaggat ggcggagtct 180  
tcggataagc tctatcgagt cgagtacgcc aagagcgggc gcgcctcttg caagaaatgc 240  
agcgagacat cccaaggac tcgctccgga tggncatcat ggtgcatcgc ccatgtttga 300  
tggaaaagtc cacatggtac anttctcctg cttctggaag tgggcaatcc atccgnanct 360  
gactttaagt gannggtttc ttata 385

<210> 832  
<211> 505  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (162)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (198)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (335)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (474)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (479)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (496)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<400> 832  
ggcanagtgc agcctcagtg ctatgaaggt gacagcgtga ggtgacccat ctggcccgc 60  
gcgatgctgg caacacggcg gctgctcggc tggtcgcttc ccgcgcggac agcaccacaag 120  
aaaacctcat ttggctcgct gaaggatgaa gaccggattt tnaccaacct gtacggccgc 180  
catgactgga ggctgaangt tccctgagtc gaggtgactg gtacaagaca aaggagatcc 240  
tgctgaaggg gcccgactgg atcctgggcg agatcaagac atcgggttta aggggccgtg 300  
gaggcgctgg cttccccaat ggcctcaagt ggnngttcat gataaggcct cagatggcag 360  
gcccgaagtat ttggtggttn aacgcaaagc agggggggagc cgggnaactg naagaaccgg 420  
gggggttttta ggccnggntc ttaaaaagtt tttgaaggtt nctttgttgg gggncggnc 480  
atggggggccc ggttgnntat ttttt 505

<210> 833  
<211> 444  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (336)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (355)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<400> 833

```
gctgcgagaa gacgacagaa ggggctctcc cctcgctccac cgetgccgcc tccttcttct 60
gccgctcctg gtgctgcttg tgtgctcggt tggcgcgac ctggtacctc ttttgtgaag 120
cggcagctga ggagactccg gcgctcgcca tggccgacga aaagcccaag gaaggagtca 180
agactgagaa caacgatcat attaatattga aggtggcggg gcaggatggt tctgtggtgc 240
agtttaagat taagaggcat acaccactta gtaaactaat gaaagcctat tgtgaacgac 300
agggattgtc aatgaagcag atcagattcc gatttnacgg gcaaccaatc aatgnaacag 360
acacacctgc acagttgggn aatgggagga tgaagatacc aatgatgtgt tccaaacagc 420
agacgggagg tgtctactga aaan 444
```

<210> 834

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<400> 834

```
cccacgcgtc cgccacgcgc tccgcgcgcg tcgctatggc gtcgctcacc gtgaaggcct 60
accttctggg caaggaggac gcggcgcgcg agattcgccg cttcagcttc tgctgcagcc 120
ccgagcctga ggcgggaagc nnggctgcgg cgggtccggg acccttgca gcggctgctg 180
agccgggtgg ccgccctgtt ccccgcgctg cggcctggcg gctttccagg cgcactaccg 240
cgattgagga cggggatttg ttgctttttt ccattgacga ggatttgaca tgggcatgtt 300
ctacgttgaa gatgaatctt tncgatttta natttnaaga gaaaanattt ccggcgggga 360
cacgncaggt                                     370
```

<210> 835

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<400> 835

```
cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgca atgagcttcg 60
tgttgcccct gaagagcatc ccaccctgct cacggaggca cccctgaacc ccaaggccaa 120
ccgggagaaa atgactcaaa ttatgtttga gactttcaat gtccaagcca tgtntttggc 180
tatccaggcg gtgctgtctc tctatgcctc tggangcaca atggaatcgt gctggactct 240
ggagatgggtg tcaccanana tgtcccaatn tatgagggct atgcttgnc ccatgcaata 300
natgggtctg natttgg                                     317
```

<210> 836

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 836  
ccctctgcgc ggcaacgtgg tcccaagccc actgcccact cgcnggacga ggaccttttc 60  
ggcgacgggtg cgggcttcan agggncccgt ttacaaagga gtctgcaa at gcttctnccg 120  
gtccaagggc catggcttca tnnccccagc tgatggcggc cccgacatct tcctgcacat 180  
ctttgaatgn gnaaggggga gtatgtncca ntgggaaggcg acgaggtcan ctataaaatg 240  
tgcttccatc ccaccaaga ntgagaagct ncaagccgtg ggagttcgtc atcaatcacc 300  
tggcaccagg naccaagtat gagacctggt tttggacant ttcatcantt tcntagga 360  
ttggttgga gcancccttt tt 382

<210> 837  
<211> 375  
<212> DNA  
<213> Homo sapiens

<400> 837  
cggagtttct cctcggggtc ggagcaggag gcacgcggag tgtgaggcca cgcagtagcg 60  
gacgctraacc ccctccccag ccacaaagag tctacatgtc taggggtctag acatgttcag 120  
ctttgtggac ctccggctcc tgctcctctt agcggccacc gccctcctga cgcacggcca 180  
agaggaaggc caagtcgagg gccaaagacga agacatccca ccaatcacct gcgtacagaa 240  
cggcctcagg taccatgacc gagacgtgtg gaaacccgag ccctgccgga tctgcgtctg 300  
cgacaacggc aagggtgtgt gcgatgacgt gatctgtgac gagaccaaga actgccccgg 360  
cgccgaagtc ccga 375

<210> 838  
<211> 484  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (14)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (36)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (138)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (187)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (267)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (273)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (352)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 838

```

nttctgancc cagntgancc aatagaaggt acgcncgcag gttaccgcgt ccggaaattc 60
ccgggtcgac ccacgcgtcc ggccagccgt tcacgcgttc ggtcctcctt ggctgantca 120
ccgccctcgc cgccgcanca tggacgcccc cangcaggtg gtcaactttg ggcctgggtcc 180
cgccaanctg ccgcactcag tgttgtaga gatacaaaaag gaattattag actacaaaagg 240
aattggcatt agtgttcttg aaatgantca cangtcatca gatattgcct agattattan 300
caatacagaa aatcttgtgc ggggaattgct aactgttcca gacaactata angtgatttn 360
tctggcangg aagtgggtgc ggccaattca ntgctgtccc ttaancctca ttggcttgaa 420
agcangaaaag tgtgcggact atgtngtgac aggaacttgg tcagctaagg gcgcanaaaa 480
aacc

```

484

<210> 839

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<400> 839

```
ggcanagtga agacagcaag ttctggatcc gcagcgcaact gtaatgggtg tcctctacag 60
ccatgtattc ggctgctggc agagacttgg ggatggaacc gcacagagcc gcgggcccctt 120
tgccagctgc gaattttcgc cctgacgttt tcaacggagg tgactatact gggcaattgc 180
tggagaagat ttgccaatt gttgcttctg aatactcgat tgantgaaag ggttttnaat 240
tcatacgcgg ggtagcccc aaatgttaca anttaaacag ncaaaacagt ccattggatg 300
cagcgggttt ccatggagac tgttcttacg gntgacaaag attttttgaa gcaagactaa 360
agntgtatta ggcattccca ttattaaggc ctggattacg ggggggcatt nctgcaatgc 420
tgtcnaaaat ncccgtnntt caaggngttt ttnccctac tntggtttac aac 473
```

<210> 840

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (229)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (244)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (260)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (277)  
<223> n equals a,t,g, or c

<400> 840  
ggcanaggat cacttgagct caggagctcg natgcagcct ggggaacatg gtgaaccttg 60  
tntctacata aaatacaaaa acttagatgg gcatgggtgct gtgngcctat agtcccacta 120  
cttgtggggc taaggcagga ggatcacttg agccccggag gtcgaggcta cantgcgcca 180  
agagtgcact actgtactcc agccagggca aggagagcga gaccctgtnt caaataaata 240  
aatnaantta attaaataan taatttaaata aaaagcnaa 279

<210> 841  
<211> 234  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (69)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (103)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (118)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (214)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (216)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (230)  
<223> n equals a,t,g, or c

<400> 841  
cgggctgcag agtaaatacag gccgcggtaa natggcacga gcaggtctnc tggttatcgg 60  
aggnaaggnn tggcgaaacg gtgtattacc gtttgctacc agnnaagaac gtganganaa 120  
gangggcacg aggcctgggt tttaaggagt gtcgccagag tgcctcgatg anacgggtat 180  
tggcggtata tggagttaaa agatgaccan ctanangact gagctagtan cagg 234

<210> 842  
<211> 460  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (32)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (383)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (447)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<400> 842

```
gtcgacccac gcgtccgctg accagcacca tngcgggttg caagaacaag cgccttacga 60
aaggcggcaa aaagggagcc aagaagaaag tggttgatcc attttctaag aaagattggg 120
atgatgtgaa agcacctgct atgttcaata taagaaatat tggaaagacg ctcgtcacca 180
ggaccaaaagg aacaaaaatt gcactctgat gtctcaaggg tcgtgtgttt gaagtgaagtc 240
ttgctgattt gcagaatgat gaagttgcat ttagaaaaatt caagctgatt actgaagatg 300
ttcagggttaa aaactgcctg actaacttcc atggcatgga tcttaccctg gacaaaaatgt 360
gttccatggg caaaaaatgg canacaatga ttgaagctca cgttgatgtc aagactaccg 420
atggttactt gcttcgctgt tctgngntgg ntntactaaa 460
```

<210> 843

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 843

```
cagtgnngac accaanccat cactaaaggg aacaaaagct ggagencac cgcggtgcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgaggt ccttccgagg 120
aagctaaggc tgcgttgggg tgaggccctc acttcatccg gcgactagca ccgcgtccgg 180
cagcgccanc ctacactcgc ccgcgccatg gcctctgtct ccgagctcgc ctgcatctac 240
tcggccctca ttctgcacga cgatgaggtg acagtcacgg aggataagat caatgccctc 300
```

attaaagcag ccggtgtaaa tgttgagcct ttttggcctg gcttgtttgc aaaggccctg 360  
gccaacgtca acattgggag cctcatctgc aatgtagggg ccggtggacc tnctccagca 420  
gctgggtgctg caccagcagg aggtcctgcc ccctccactg ctgctgctcc agctgaggag 480  
aagaaagtgg aagcaaagaa agaagaatcc gaggagtctt atgatgacat gggctttggt 540  
ctttttgact aaacctcttt tataacatgt tcaataaaaa gctgaacttt acaaaaa 597

<210> 844  
<211> 502  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (29)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (32)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (51)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (63)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (95)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (224)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (244)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (276)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (402)  
<223> n equals a,t,g, or c

<400> 844

```
nnggnnnnca aattanccct gcactgaang gnaacaaaag ctgggagctc ncaccgcggt 60
ggngggccgct ctagtaacta gtggatcccc cgggnctgca ggaattcgg gcacgagcaa 120
gccaaagatgg gtgcnataca agtacatcca ggtagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccantctctt gctctccaca 240
gggnctcccc gccccacccg gcctgataaa gcgcgncgac tgggctacaa ggccaagcaa 300
ggttacgtta tatataggat tcgtgttcgc cgtgggtggcc gaaaacgccc agttcctaag 360
gggtgcaactt acggcaagcc tgtccatcat ggtgttaanc anctaaagtt tgctcgaagc 420
cttcagtccg ttgcagagga gcgagctgga cgccactgtg gggctctgag agtcctgaat 480
tcttactggg ttggtgaaga tt                                     502
```

<210> 845

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 845

```
gcnganacna accctcacta aagggaacaa aagctggagc tccaccgcgg tgacgaccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca gagctttgct tttccatccg 120
cctttgatcg tcttcctctt cagccatcca ggtaagccaa gatgggtgca tacaagtaca 180
tccaggagct atggagaaaag aagcagtctg atgtcatgcg ctttcttctg agggcccgct 240
gctggcagta ccgccagctc tctgctctcc acagggctcc ccgccccacc cggectgata 300
aagcgcgccg actgggctac aaggccaagc aaggttacgt tatatatagg attcgtgttc 360
gccgtggtgg ccgaaaacgc ccagttccta aggggtgcaat tacggcaagc ctgtccatca 420
tggtgttaac agctaaagtt tgctcgaagc cttcagtccg ttgcagagga gcgagctgga 480
cgccactgtg gggctctgag agtcctgaat tcttactggg ttggtgaaga ttccacatac 540
aaatTTTTTg aggttatcct cattgatcca ttccataaag ctatcagaag aaatcctgac 600
a                                     601
```

<210> 846

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 846

```
aattntaatt aaantcaccn tcactaangg ancaaagctg gngctccacc gcggtggcgg 60
ccgctctagc actagtggat cccccgggtc tgcaggaatt cggcacgagc gcagnaagcg 120
agatgacgag ggaacgtcat cgtttggaaa gcgtcgcaat aagacgcaca ngttgtgccg 180
ncgctgtggc tctaaggcct accaccttca gaagtcgacc tgtggcaaat gtggctaccc 240
tgccaagcgc aagagaaaagt ataactggag tgccaaggct aaaagacgaa ataccaccgg 300
aactggtcga atgaggcacc taaaaattgt ataccgcaga ttcaggcatg gattccgtga 360
aggaacaaca cctaaaccca agagggcagc tgttgcagca tccagttcat cttaagaatg 420
tcaacggtta gtcattgcaat aaatgttctg gtttt 455
```

<210> 847  
<211> 428  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (21)  
<223> n equals a,t,g, or c

<400> 847  
attanccctc actaaagggg ncaaaagctg gggctccacc gcggtgacga ccgctctaga 60  
actagtggat cccccgggct gcaggaattc ggcacgaggt cgcggcgaca tggccaaacg 120  
taccaagaaa gtcgggatcg tcggtaaata cgggaccgcg tatggggcct ccctccggaa 180  
aatggtgaag aaaattgaaa tcagccagca cgccaagtac acttgctctt tctgtggcaa 240  
aaccaagatg aagagacgag ctgtggggat ctggcactgt ggttcctgca tgaagacagt 300  
ggctggcggg gcctggacgt acaataccac ttccgctgtc acggtaaagt ccgccatcag 360  
aagactgaag gagttgaaa accagtagac gtcctcttac tctttgagac atcactggcc 420  
tataataa 428

<210> 848  
<211> 348  
<212> DNA  
<213> Homo sapiens

<400> 848  
tcgcgcgac atggccaaac gtaccaagaa agtcgggatc gtcggtaaat acgggacccg 60  
ctatggggcc tccctccgga aaatggtgaa gaaaattgaa atcagccagc acgccaagta 120  
cacttgctct ttctgtggca aaaccaagat gaagagacga gctgtgggga tctggcactg 180  
tggttcctgc atgaagacag tggctggcgg tgcctggacg tacaatacca cttccgctgt 240  
cacggtaaag tccgccatca gaagactgaa ggagttgaaa gaccagtaga cgctcctcta 300  
ctctttgaga catcactggc ctataataaa tgggttaatt tatgtaac 348

<210> 849  
<211> 365  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (216)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (226)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (315)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (361)  
<223> n equals a,t,g, or c

<400> 849  
ggcagagcct aggtcgcggc gacatggcca aacgtaccaa gaaagtcggg atcgtcggta 60  
aatacgggac ccgctatggg gcctccctcc ggaaaatggg gaagaaaatt gaaatcagcc 120  
agcacgccaa gtacacttgc tctttctgtg gcaaaaccaa gatgaagaga cgagctgtgg 180  
ggatctggca ctgtggttcc tgcatagaaga cagtgnntgg cggtnctgg acgtacaata 240  
ccacttccgc tgtcacggtt aaagtccgcc atcagaagan tgaaggagtt gaaagaccat 300  
tagacgttcc tntantcttt gggacatcat tggntataa ttaatgggtt aatttttggg 360  
naaaa 365

<210> 850  
<211> 276  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (36)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (47)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (75)  
<223> n equals a,t,g, or c

<400> 850  
gacantaaga ngggaacaaa aaaacatgga acatgnacac agcaggntgg caggcacagc 60  
atcataggaa ctagntggat cccccagggc tgcaggaatt cggcacgagg ccgaaaggaa 120  
agaaggccaa gggaaagccc agctgtcgtg aagaagcagg aggctaagaa agtgggtgaat 180  
ccccgttttg aagcctaaga attttggcat tggacaggac atccagccca aaagagactc 240  
acccgctttg tgaaatggct atatcagggt gcagcg 276

<210> 851  
<211> 430  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (70)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (94)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (174)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 851

```
gctgcgagaa gacgacagaa aaaaaaaaaa aaaaaaaaaa agcgcggccg ctgtcgagaa 60
gacgacagan gggggccccc gaagataagg ccgntcgctg acgccgtgtt tcctctttcg 120
gccgcgctgg tgaacaggac ccgtcgccat gggccgtgtg atccgtggac agangaaggg 180
cgccgggtct gtgttccgcg cgcacgtgaa gcaccgtaaa ggcgctgcgc gctgcgcgcc 240
gtggatttcg ctgagcggaa cggctacatc aagggcatcg tcaaggacat catccacgac 300
ccgggcccgc gcncgcccct cgccaagggt gtcttccggg atccgtancg tttaagaagc 360
gngncggagc tgttcattgc cgccgagggc attcacacgg gccagtttgt gtattgccgc 420
aaaaaggccc                                     430
```

<210> 852

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (84)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (92)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (101)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (176)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (247)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (399)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<400> 852  
gcggacgcgt gtntcgaccc acgcgtccgg ncgagncgcg cggaggcgga ggcttgggtg 60  
cgttcaagat tcagcttcac ncgnaagcca cnggcatggc ngaggaaggc attgctgctg 120  
gaggtgtaat ggacgttaat actgctttac aagaggttct gaagactgcc ctcatncacg 180  
atggcctagc acgaggaatt cgcgaagctg ccaaagcctt agacaagcgc caagcccatc 240  
tttgtgngct tgcattcaac tngatgagc ctatgtatgn caagntggng gaggcccttt 300  
gngctgaaca ccaaatnaac ctaattaagg gttgatgaca acaagaaact aggagaatgg 360  
gtaggccttt gnaaaaatga cagagagggg aaaccccgna aagngggttg nttgcagntg 420

<210> 853  
<211> 278  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (126)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<400> 853

```
ctcgtgccga attcggcacg agccgccatc atgggtcgca tgcattgctcc cgggaagggc 60
ctgtcccagt cggctttacc ctatcgacgc agcgtcccca cttggttgaa gttgacatct 120
gacgannnga aggagcagat ttacaaactg gccaaagaagg gccttactcc ttcacagatc 180
ggtgtaatcc tgagagattc acatggtgtt gcacaagtac gttttgtgac aggcaataaa 240
attttaagaa ttcttaagtc taagggactt gctcctga 278
```

<210> 854

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<400> 854

```
gcggnacgnt ggaccgggggt ccttcctgtgc gcgttgatat gattggccgg cgaatcgtgg 60
ttctctttttc ctcttgggt gtctgaagat agatcgccat cgtnaacgac accgtaacta 120
tccgcactag aaagtcatg accaaccgac tacttcagag gaaacaaatg gtcattgatg 180
tccttcaccc cgggaaggcg acagtgccta agacagaaat tcgggaaaaa ctagccaaaa 240
tgtacaagac cacaccggat gtcattctttg tatttggtatt cagaactcat tttggtggtg 300
gcaagacaac tggctttggc atgatttatg attccctgga ttatgcaaag aaaaatgaac 360
ccaaacatag acttgcaaga catggcctgt atgagaagaa aaagacct 408
```

<210> 855

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 855

```
gggtcgaccc acgcgtccgc tatgacacca agggtcgctt tgctgtacat cgtattacac 60
ctgaggaggc caagtacaag ttgtgcaaag tgagaaagat ctttgtgggc acaaaaggaa 120
tccctcatct ggtgactcat gatgcccgca ccatccgcta ccccgatccc ctcataaagg 180
tgaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 240
aacttggtaa cctgtgtatg gtgactggag gtgctaacta gggaagantg gtgtgatcac 300
caacagagag aggcaccctg ggatcttttg gacgtgggtt cactngaaag atggccaatg 360
ggaacagctt tgccaantcg anttttccaa catttttgtt anttgggcaa ggggcaacaa 420
anca 424
```

<210> 856

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<400> 856

```
gggcatcttt cgggacaatt ggcacaagcg ccgcaaaacc gggggcaaga gaaagcccta 60
ccacaagaag cggaagtatg agttggggcg cccagctgcc aacaccaaga ttggcccccg 120
ccgcatccac acagtccgtg tgcggggagg taacaagaaa taccgtgcc tgaggttgga 180
cgtggggaat ttctcctggg gctcagagtg ttgtactcgt aaaacaagga tcatcgatgt 240
tgtctacaat gcatctaata acgagctggn tcgtaccaag accctggtga agaattgcat 300
cnggctcatc gacagcacac cgtaccgaca gtggtaccna gtcccactat gcgctgcccc 360
tggcccgcga gaaggagacc aagctgactc ctgaggaaga agagatttta aacaaaaaac 420
gatctaaaaa aattcagaag aaatatgatg aaagggaaaa agaatgccaa aatcaagcaa 480
gtctttctgga ggagcagttt cagcagggca agcttcttgc gtgcatcgnt ttaaggnccg 540
gacagtgtgg ccgancagat ggctatgtgc taaanggcaa agagtggagt ctatcttang 600
aaaacaag                                     608
```

<210> 857

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (389)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<400> 857  
ggcacgagtg gggccgtctt cctcatcctt cctttttctc ggggctcccg tggagccacc 60  
tggacatgag acccgccctc aatgccgaag cctctcggaa gcaatctttc gggacggaag 120  
ttaagtagcc ccgagcggga ggctgtggcg gaagtggctg cgttaccgck tgtttgtgcg 180  
catgcgccac tctcgtctgg ccgccgcgct ttcaggaggt gcttttggtt ctctccggtc 240  
ttgtccacgc taggggggtgc acgtackccc aactgtggtc gcgctctcac cccttctgct 300  
gckctcgtgg cccctcgcg atggcgggca tcctgtttga ggatattttc gatgtgaagg 360  
atattgancc ggaaggcaag aagtttganc gagtgtctcg ackgcattgt gagagtgaay 420  
ttycaagatg gvwbkaaach aagakgtaaa 450

<210> 858  
<211> 467  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (9)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 858

```
gaaaanacnn gaaccannan gaagaatcga aagagctntg ncagncttnc tcaaaaagtc 60
cggggaagctg aaagtccccg aatgggtgga taccgtcaag ctggccaagc acaaagagct 120
tgctccctac gatgagaact ggttctacac gcgagctgct tccacagcgc ggcacctgta 180
cctccggggg ggcgtgggg ttggtccat gaccaagatc tatgggggac gtcagagaaa 240
cggcgtcatg cccagccact tcagccgtgg ctccaagagt gtggcccgcc gggtcctcca 300
agccctggag gggctgaaaa tgggtgaaaa ggaccaagat ggcggtcgca aactgacacc 360
tcagggacaa agagatctgg acagaatcgc cggacaggtg gcagcttcca acaagaagca 420
ttagaacaaa ccatgctggg gtaataaatt ggcctnatte gtaaaaa 467
```

<210> 859

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 859

```
gggtcgaccc acgcgtccga aaaactgttnn gggagcttga caaaggcatg caggagagaa 60
caggagcagc cacagccagg agggagagcc ttccccaagc aaacaatcca gagcagctgt 120
gcaaacaacg gtgcataaat gaggcctcct ggaccatgaa gctagtcctg agctgcgtcc 180
cggagcccac ggtggtcatg gctgccagag cgctctgcat gctggggctg gtcctggcct 240
tgctgtcctc cagctctgcg agggagttac gtggggcctg tctgccaaac cagtgtgccg 300
tgccagccaa ggacaggggtg gaattgcggc ttacccccat gttcaccccc aaggattgca 360
aaaaccgggg ttgctgcntt tgaattccag gatccnggat ggncntggtg ttttcaagcc 420
cntgccagga agcagaagca c                                     441
```

<210> 860

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<400> 860

```
tgggctacct gcattcactg aacatcgttt atagagactt aaaaccagag aatattttgc 60
tagattcaca gggacacatt gtccttactg acttcggact ctgcaaggag aacattgaac 120
acaacagcac aacatccacc ttctgtggca cgccggagta tctcgcacct gaggtgcttc 180
ataagcagcc ttatgacagg actgtggact ggtgggtgctt gggagctttc ttgtatgaga 240
tgctgtatgg cctgccgcct ttttatagcc gaaacacagc tgaaatgtac gacaacattc 300
tgaacaagcc tctccagctg aaaccaaata ttaccaattc cgcaagacac ctcctggaag 360
ggctcctgna gaaggacang acaaagcggc tcggggggcaa nggtgacttc atggagatta 420
aga 423
```

<210> 861

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 861

```
ggcacgagct cgtgcgcttt ggggctgctg ggactcgctg cggttggcga ctcccggacg 60
taggtagttt gttggggccg gttctgaggc cttgcttctc tttacttttc cactctaggc 120
cacgatgccg cagtaccaga cctgggagga gttcagccgc gctgccgaga agctttacct 180
cgctgaccct atgaaggcac gtgtggttct caaatatagg cattctgatg ggaacttgtg 240
tgttaaagta acagatgatt tagtttgttt ggtgtataaa acagaccaag ctcaagatgt 300
aaagaagatt gagaaattcc acagtcaact aatgcgactt attgtagncc aaggagcccn 360
caatttacca tgggaactga gtgaatggtt tnaatgagac ttntcgggta cttagggagt 420
aaaancctt                                     429
```

<210> 862

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (286)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (288)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (488)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (544)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (545)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 862

```
cgcggggcgcn cncgctctag aactagtggg tcccctgggn ctgcaggaat tcggcanagg 60
naagtctccc agaagacagt gattatcaag gaagaggaag aagatactgc agagaagcca 120
gggaaggaag aggatgtcgt gactccaaaa ccagncaaga gaaagagaga ccaggcagag 180
gaggagccca acagaatacc aagccgcanc ctccgacgga ccaaacttaa ccaagaatca 240
acagccccc aagtgtctctt cacaggagtgt gtggatgctc gggganancg ggctgtgctg 300
gcatgggggg aaatctggct ggttcacggt caaagcttcc cacnggttca tggatcgcat 360
ccgccggaca ttcaattcct gtgtggccct ggggcggggn attccccatt ctgttccngg 420
gatgggtggc atcattcccc tcaagctggt tttcttctta ccccgatga atatgtggtg 480
aacgaccngg cnccaanaga agaatttggc tttactttca agacgcattg agcagggtcc 540
gganngaagg tgcntanaag ggtatgaatt tatgtgaacc tggatccacc acacca 596
```

<210> 863

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 863

ggcagcttgg cagtgaccaa gaatgatggg cactaccgtg gagatcccaa ctggtttatg 60  
aagtatgtgg cccccaggga gcttgggtct ccgcatgggg tgggaggtgg cttgttctaa 120  
ggagcttgcg agaaggatta ggggaagcag atagccaaga aaggataaag tgagggctcg 180  
ggatggggaa taatgggtcc ttaatactcc ttgaccctc cctttccacc ctctgcgct 240  
cagtctccct agcctatgag gcaagctaga ttagggaaaa aaagtgcaca ggaaggcaat 300  
ggggattggg ctaagacgta acacagggat cagaaaacgg gtggaaaaca cacatttcta 360  
ncaagtcttt aacccggttc ctccccttct taggaaagcg cagagcttaa gangggantt 420  
cacagagagc cagnngcagg a 441

<210> 864

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 864

gacatcacca cggcggcagc catttaaacc cctcacccag ccagcgcccc atcctgtctg 60  
tccgaaccca gacacaagtc ttactcctt cctgcgagcc ctgaggaagc cttctttccc 120  
cagacatggc caacaagggt ccttcctatg gcatgagccg cgaagtgcag tccaaaatcg 180  
agaagaagta tgacgaggag ctgggaggag cggctggtgg agtgggtcca tagtggcagt 240  
gtggggccctg atgtggggcc ggcccagacc gtggggcgct tggggctttc caggttntgg 300  
cttgaagatt ggcgttgatt tntgnagcaa gctgggttgg aacagcntnt tacc 355

<210> 865

<211> 499

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (353)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (406)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (412)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (444)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (462)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (465)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (490)  
<223> n equals a,t,g, or c

<400> 865  
aattcggcac gagactggac caaattagac agagagaatc agatatcacc aaggagagaa 60  
ttcagaagat cctggcaact ggtgccaatg ttattctaac cactggtgga attgatgata 120  
tgtgtctgaa gtattttgtg gaggctggtg ctatggcagt tagaagagtt ttaaaaagg 180  
accttaaacg cattgccaaa gcttctggag caactattct gtcaaccctg gccaatttg 240  
aagggtgaaga aacttttgaa gctgcaatgt tgggacaggc agaagaagtt gtacaggaga 300  
gattttgtga tgatgagctg atcttaaten aaatacctag ggncgacggt ttnatcggtt 360  
tttttcgggg ggcaaaattt tcccggtnnt ngggnggggg cctttnaaag gncctttttg 420  
ggagngnttt tgggnaaatt gggnccecg gggtttttaa gnccttctnt cccaaaattn 480  
ccccagggtg ggacctttt 499

<210> 866  
<211> 353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (42)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (244)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (249)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (284)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (349)  
<223> n equals a,t,g, or c

<400> 866  
attgctggaa aactgcagga tggactcttg nacatcacta nntgnagttt tntggctccc 60  
tggaacagcc tgagcttagc tcnegccggg gcttcaccaa gacctacact gttggctgta 120  
aggaatgcac agtgtttccc tgtttatcca tcccctgtca aactgcagag tggcactcat 180  
tgcttggtga cggaccagct cctccaaggc tctgaaaagg gcttccagtt cccgtnaacc 240  
ttgnctggnc tgacctcggg aagcnagggg ctgtgacacc tggnagtgcc ctgnggtnc 300  
cagaatagcc tggaatcctg tcccgaagtt ggtaagttgg aagcctttna cat 353

<210> 867  
<211> 566  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (425)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (499)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (514)  
<223> n equals a,t,g, or c

&lt;400&gt; 867

```
ccgcgcgccc gtcccgtcgc cgccgcgcgc gccgcagacc cctcgggtctt gctatgtcga 60
gtccacccgt gaagcgtcag aggatggagt ccgcgctgga ccagctcaag cagttcacca 120
ccgtggtggc cgacacgggc gacttccacg ccatcgacga gtacaagccc caggatgcta 180
ccaccaaccc gtccctgatc ctggccgcag cacagatgcc cgcttaccag gagctggtgg 240
aggaggcgat tgcctatggc cggaagctgg gcgggtcaca agaggaccag attaaaaatg 300
ctattgntaa actttttgtg ttgtttggag cagaaatact aaagaagatt ccgggcccag 360
tatccacaga atagacgcaa ggctctcctt tgataaagat gcgatggtgg ccagagccag 420
gcggnctatc gagctctaca aggaagctgg gatcagcaag accgaattct tataaagctg 480
tcatcaacct ggggaaggna ttcaggctgg aaangagctc gaaggagcag cacggcatcc 540
actgcaacat gacttaatct tctcct 566
```

&lt;210&gt; 868

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (193)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (360)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (389)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 868

```
ggcacgagcg gcgtcttagc ggctgcgcgg tggctgctcc gtcctttcgg tccaggcggc 60
ggcagggctg agccagcgac gccctccatt cactctccgc gcccgttctc cggtgtcct 120
cccgttccgc tgcccgcct gccaccatga cggaacaggc catctccttc gccaaagact 180
tcttggccgg agnatcgccg ccgccatctc caagacggcc gtggctccga tcgagcgggt 240
caagctgctg ctgcaggctc agcacgccag caagcagatc gccgccgaca agcagtacaa 300
gggcatcgct gactgcattg tccgcatccc aaggagcagg cgtgtgtcct tctggagggn 360
aactttgcaa cgtcatcgct acttcccant caagcctcaa ttcgcttcaa gat 413
```

&lt;210&gt; 869

&lt;211&gt; 600

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (143)

&lt;223&gt; n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (329)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (547)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (548)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (555)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (588)  
<223> n equals a,t,g, or c

<400> 869  
gggactggag caaggtcgct ctggcctatg agcctgtgtg ggccattggt actggcaaga 60  
ctgcaacacc ccaacaggcc caggaagtac acgagaagct ccgaggatgg ctgaagtcca 120  
acgtctctga tgcggtggct canagcacc gtatcattta tggaggctct gtgactgggg 180  
caacctgcaa ggagctggcc agccagcctg atgtggatgg cttccttggt ggtgggtgctt 240  
ccctcaagcc cgaattcgtg gacatcatca atgccaaaca atgagcccca tccatcttcc 300  
ctacccttcc tgccaagcca gggactaanc agcccanaag cccagtaact gccctttccc 360  
tgcatatgct tctgatgggt tcatctgctc cttcctgngg cctcatccaa actgtatctt 420  
cctttactgg ttatatcttc accctgtaat gggtgggacc aggccaatcc cttctccact 480  
tactataatg gttggaacta aacgtcacca aggtggcttc tccttggtg agagatggaa 540

ggcgtgnngg gattngctcc tgggttcct aagccctagt ganggcanaa gagaaacat 600

<210> 870

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (266)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (321)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (352)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (354)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (355)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (357)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (442)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (474)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (492)  
<223> n equals a,t,g, or c

<400> 870  
aattcggcac gagggcaggg gcatccnnat cgagcgagtc gtctcctcgg aggggtggccg 60  
gccctctgtn gacctatcct tccagccctc gaagcccctg agcaagtcca gctcctctcc 120  
cgagctgcag actctncagg acatcctcgg ggaccctggg gacaaggccg acgtgggncg 180  
gntgagccct naggttaagg cccggtcaca gtcaggggcc ctggacgggg aaagtncctgc 240  
ctggtcggtc tcgggcgaag acagtnggga ncagcccagag ggtcccttga cttccaggtn 300  
cccccggttc gcccgaagtgg nctccggccc cgtagggttac aacatttncg antnngnccc 360  
atcacgcnag ggcaaganat tagagagggg cgctttaaga gcagagcaca gcttnattca 420  
gagaagttcc aggataaccc anttcgtttc ttgagtttac atcccttttt tggnggataa 480  
aaagcatctt tngccat 497

<210> 871  
<211> 568  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (7)  
<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (484)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (533)  
<223> n equals a,t,g, or c

<400> 871  
ggncganacc aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60  
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcgaaga tgaaattaac 120  
cgccgcacag ctgctgagaa tgagtttgtg gtgctgaaga aggatgtgga tgctgcctac 180  
atgagcaagg tggagctgga ggccaagggtg gatgccctga atgatgagat caacttcctc 240  
aggaccctca atgagacgga gttgacagag ctgcagtccc agatctccga cacatctgtg 300  
gtgctgtcca tggacaacag tcgctccctg gacctggacg gcatcatcgc tgagggtcaag 360  
gcacagtatg aggagatggc caaatgcagc cgggctgagg ctgaagcctg gtaccagacc 420  
aagtttgaga cctncaggc ccaggctggg aagcatggg acgacctccg gaatacccgg 480  
aatnagattt cagagatgaa ccgggccatn cagaggctgc aggctgagat cgncaacatc 540  
aagaaccagc gtgccaagtt ggaggccg 568

<210> 872  
<211> 228  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (72)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (83)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (85)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (126)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (188)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (197)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (198)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (221)  
<223> n equals a,t,g, or c

<400> 872  
aattcggcan agcttcaaac tctactccca ctaatagctt tttaatgact tctagcaagc 60  
ctcgctaacc tngccttacc ccncnctatt aacctactgg gagaactctc tgtggctagt 120  
aaccangttc tnctgatcaa atatcactct cctacttaca ggaactcaac atactagtgc 180  
acagcccnat actcccnntg acatatttac cacaacacaa ngggggct 228

<210> 873  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (308)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (318)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (348)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (424)  
<223> n equals a,t,g, or c

<400> 873  
ctggcctcct gtcttagcct tcctgggctg tgtctggagc ctgggacctt gcttgtgggg 60  
taaaagcaac agaacacttg cccttcccaa aatgaaggga gaggagatgg ggcttctctt 120  
cctctcccct gagtgggaaa ggagctcttg gggctggtcc ttcagcacag aggaggggtc 180  
actgaaagcg ttattgacca gctgctgtac cttctgcato tcactccacg ctactgcct 240  
ttttctcttc cttgcatttg ctctgtgcc tgtgccggct cctgcaaata caaagatgca 300  
aatgcacntc cttgcaanaa gagtgantgc aggcctttcc tgcgaatntg ggggatgggc 360  
canttaanca ggaaccagac ttgcagcagg gcaggcatga cagtttccca aacctcttta 420  
anangattca att 433

<210> 874  
<211> 84  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (53)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (58)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (73)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (75)  
<223> n equals a,t,g, or c

<400> 874  
agagagagag agagagagag agagagagag agagagagag agagagagcn cgngccgnat 60  
tcggcccccac atntntcatc acca 84

<210> 875  
<211> 507  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (28)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (68)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (156)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (283)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (340)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (358)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (363)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (385)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (430)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (436)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (439)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (449)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (454)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (455)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (456)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (467)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (468)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (471)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (474)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (486)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (490)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (491)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (497)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (498)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (500)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (503)  
<223> n equals a,t,g, or c

<400> 875



aattcggcan agcgggaatg ctaatagnga aaatggggag caggaggctg acaatgaggt 60  
agacgagnaa gaggaagaag gtggggagga agaggaggag gaagaagaag gtgatggtga 120  
ggaagaggat ggagatgaag atgaggaagc tgagtncagt tacgggcca a gcgggcagct 180  
gaagatgatg aggatgacga tgtcgatacc aagaagcaga agaccgacga ggatgactta 240  
gacagcaaaa aaggaaaatt taaacttaaa aaaaaaaagg ccnccgtgac ctttttacc 300  
tccatttccc ttttcagatt ttaaacgtgg tcacctttcn gttagaaggg cccccccnnc 360  
cancnttggg aattcccntt tccnnnttt nncagggggt ttttcannnn cccnnncccn 420  
aaccttgggn tttttnaana gggngggna aaannnccca atttttnnng nccntttttt 480  
tttttnaaan ntttttnnan ggntttt 507

<210> 876

<211> 190

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 876

ccaccttact accagacaac cttnggcaaa ccttttnccc aaataaagta taggcgatag 60  
aaattgaaac ctggcgcaat agatatagta ccgcaaggaa agatgaaaaa ttataaccaa 120  
gcataatata gcaaggacta acccctatac cttctgcata atgaattaac tagaaataac 180  
ttttgcaagg 190

<210> 877

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<400> 877

cagcagccaa aggcttgtcc ctgactttat atggctgctc ctggcgagcg actgagtcgt 60  
ccgtgaggaa aaagaggcga ggcttttccg agatcgtctc agcgatggcg cttcggtcgc 120  
ggttttgggg gttgttctcg gtttgcagga accctggtaa ttagtcttgc ccccttctc 180  
ccagctcact cgcctgggct tgcacagtac attggaacgt gcgggttcta ttttgatttc 240  
gacgtgccgg atcgaaaatag agctcgcggn actgcgaaga ccacagtagg aagttaagga 300  
cggggtcagt gctga 315

<210> 878

<211> 295

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (4)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (44)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (55)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (59)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (60)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (62)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (68)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (69)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (192)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (197)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (198)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (225)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (265)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (268)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (275)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<400> 878  
aatncggcac gagagacagt ttgctaattt aaaaatgtag catnccattn gratntatnn 60  
cncctcccnng ccaaaaagat tnnctaatac tgcttgtagc agccagagaa agatccaaaa 120  
cactacncag cncctcngca cngaggaaat ntttccccc acatngactc cnggcctaca 180  
tcagccaaac nnaaccnngg tggggtttgg atttgatagc caatnagttc tgtgctggtt 240

gcaaagaatt gatatnttag atggnntnta atacntcagc agatttgtct ttncg 295

<210> 879

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 879

ctgaggttta cagttagaaa atgttctcaa aggtttatca gttatgtatt gatgattggt 60  
aatctagacc ctctggaggc tgtagaatgt gaaaagatac agctgagctg acaagtttta 120  
gggcactatc ttctggaatg aaatcggcca agaaaatggt tcaagggcat gggggttaga 180  
gaatgtttct ttacctaata aatgttaagc caactatgga agattggggt cgtgggggca 240  
tgaaatacaa aattatgata atttatacag aactagggtt ctttatgttc tgcaagaagg 300  
tttttattag ctaatttggg gagggggggc atgctgcagt attttttttc ctggggaaca 360  
tgccatttct gatggggaag ttattttgtt tacaagagtt ggtttaccac acaaccctga 420  
atgaatgtgn caatggccta a 441

<210> 880

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 880

ggcanagcgg cattgggagg ggcgctctga gattaaagag ttttacctct gaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaaa aaaannaana na 112

<210> 881

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (147)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (154)  
<223> n equals a,t,g, or c

<400> 881  
ggcagaccna acatagattt aantaaatac attancgggg gtaaaaatga aaatcntaac 60  
ccaagacatg aacattttta gctgtaactt aactattaag gccttttccc acacgcntta 120  
atagtcccat tttctntttg gncattngtg gctntgcccc at 162

<210> 882  
<211> 117  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (91)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (104)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (113)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<400> 882

ggcanagggg aaaccccccgc ctctactaaa aatacaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaanaaaana aanaaan 117

<210> 883

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c



<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 883

```
gnccaatnta tcaatcacgc actgcactca tcagggcaaa cctgggtacg cctgncaggt 60
caccggtncg ggnaattccc gggtcgaccc acgcgtccgc ccacgcgtcc gccacgcgt 120
ccgcccacgc gtccgctcgt gccatgatct gtatttaatg gtttttattt ctcggttgca 180
tttgagagaa gccacgctgt cctctcgagc ccagatggaa agacgttttt gtgctgtggg 240
cagcancctc ccccgacgcg gggtaggga agaaaactat cctgcggggt ttaatttatt 300
tcatccagtt tggtctccgg gtgtggcctc agccctcaga acaatccgat tcacgtaggg 360
aaatgtttaa ggantctgc agctatgncg aatgtggcat gggggggcgg gcagtcctgc 420
ccatgtgttc cctcatctgn tcagccancg nc 452
```

<210> 884

<211> 340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (257)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (263)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (282)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (284)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<400> 884  
aatcggcac aggtgaatcg cagcttctga gaccaggggt gctccgtecg tgctccgcct 60  
cgccatgact tcctacagct atcgccagtn gtcggnacg tcgtccttcg gaggcctggg 120  
cggcggctcc gtggcgtttt gggccggggg tcgcctttcg cgcgccacg attcacgggg 180  
gctccggcgg ccgcggcgta tccgtntcct ccgcccgett tgtgtcctcg tcctcctcgg 240  
gggcctacgg nggtggntaa ggngggggtc ctgaaccgcn tncnaacggg gtgctggggc 300  
ggcaacgagg aagcttaaac catgcagaac ctnaacgacc 340

<210> 885  
<211> 52  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<400> 885

gncctatagt gagtcgnatt acaattcact ggccgtcgtt ttacaaccnc gt 52

<210> 886

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (193)

<223> n equals a,t,g, or c

<400> 886

gacctgcaga gccctgctgc gcagangtgc tgttttccag ccctcccca atgcattctt 60  
caggtgcgtg tctgaagatc ttggttttgc tgtgcttgan acacagctga tgctttannn 120  
gctcagggtt actggcttta taacagtnng cataacgcct aaagcatccc ctctgcacgt 180  
gactgagcat gtncttaacc agaggagctg aacggagtgc agaaaatagt agttttaggg 240  
cttagtgagc agaggaagca gcttctctgg tgctttattt aatagaacat ttaagagtgc 300  
tca 303

<210> 887  
<211> 649  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (198)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (201)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (206)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (386)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (400)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (438)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (448)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (474)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (482)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (486)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (509)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (513)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (553)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (575)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (582)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (586)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 887

```
gggacacggc ggtcggttttc ccgaaaacat gggccctccc atggggccatt tgctccctgg 60
aggccctcgc gtcttgctga gcccggggag ttaggatgac gcgagcgggtg agggagcccg 120
gaacgattcc ttcgcggaac aattgaggcg aagccttttg gagtactttg tgggacggac 180
cctggcgggc cctgccanac ncacanggat ggcggcggaa gcggccgatt tggggctggg 240
ggccgcccgc cccgtggaac tnaagcggga gcgacgcgat gtgtgcgtgg agtaccggg 300
aattggtgcg tgatgtggct aaaatgctgc ccactctggg cggggaaaga aaggggtctc 360
cccgatctt acccagaanc ccccnagaa agcttgggan cttgtttctt cccggggccc 420
aaggaaccca ttacttgncc cccccgntg tttgggcca aaccgcctt ccanttacca 480
ancaancctt gcttgcttcc ccctttccnn ggnaaaaaaa aaaacaaaag ggggggggaa 540
aaaaaagggg ttntcttggg ggccccttta aaggnccccc tcccnaagg tccccctttt 600
tgaaaattgg gaaaaatcct ntgggggttc cttcttcccc ccccttttt 649
```

<210> 888

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 888

gccctatagt gagtcgtatt acaattcact ggccgtcggt ttacaacgtc gtnatgtggn 60  
aaaccnnnta at 72

<210> 889

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c ,

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (95)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (132)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (134)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (151)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (158)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (163)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (168)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<220>



<221> misc feature  
<222> (224)  
<223> n equals a,t,g, or c

<400> 889  
ggcanagttt ttttttttaa anaaggngaa aacacatgna atttnatttt tntttaacct 60  
taagnttgcc aacttcttnc cctgaacagc atttntcttg ttttgatacc cacctacact 120  
tatattagaa angnntgca aactattttag ngactccnct ttnaattnat ggncgtatgc 180  
ctnaagaatg ttttgaata taaagcctat cccgtttgcc cagnttgtaa atttcagg 238

<210> 890  
<211> 225  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (185)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (204)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (217)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (223)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (224)  
<223> n equals a,t,g, or c

<400> 890  
accacgcag tccgcgcgc ctccatcacg tgtctgttct ctggggaggc agtaaggggc 60  
cgtggagctg gcctcggcct cggcatcggg agaggctgga ctccctgtct ctctgtgctg 120  
aanggctgcg atggcgcccg ctctcactga cgcagcagct gaagcacacc atatccggtt 180  
caaantggct ccccatcct ctancttgct ccctggncag tgnng 225

<210> 891  
<211> 130  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (90)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (96)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (103)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (129)  
<223> n equals a,t,g, or c

<400> 891  
ggcacgagcg gcacgagggg gggcccggta cccaattcgc cctatagtga gtcgtattac 60  
aattcactgg ccgtcggtttt acaactncgn gatganggaa atntaaaata cttccgagct 120  
cgtatgttnt 130

<210> 892  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 892  
gcactgaaga acattactga gggggctaac cttggggact ccaatttgcc aatgatgagg 60  
gaacatttga aagaactgca aattgtcctt gccagctctt gggatccttg gatacctggg 120  
gccatttaag aagctagggg aattaggcca caacaccccc tgggacatcc gaaagctaca 180  
ccacagatgc cagtgggtca tgccttcttc ccgcaacttt aggaaaattt atttatttat 240  
tgtttattag ttatgggggg agaggggaga tttaaaggac cagggacatg ggaaccaagc 300  
catagggatc agaggggctt gtccttgaac actactgggg tatattcagg ctcacccacg 360  
cagctgctgg gttcttgccc taacggccct cccctgcaac atccgtcttg gaggagagggc 420  
t 421

<210> 893

<211> 307  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (264)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<400> 893  
ggaatgacaa accctttgaa tgaaattgtg gcacaaaatc tgttcagggt ggtgtaccgt 60  
gtaaaagtggg gatggggtaa aagtgggttaa cgtcactgtt ggatcaacaa ataaagggtta 120  
cagttttgta agagaagtga tttgaatata tttttctgga actattcata atatgaagtt 180  
ttcctagaac cactggagtt tctagtttaa tagtttgcta tgcaatgnac cacctaaaac 240  
aatactttat attgttattt ttcngaaaga ctcaaaacac ctgtaattnt aaaccttaat 300  
atganan 307

<210> 894  
<211> 453  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (18)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (76)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (129)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (403)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (404)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (405)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (453)  
<223> n equals a,t,g, or c

<400> 894  
gcggnacgcg tgggtggnac ccacgcgtcc gtcgacccac gcgtccgcga cctgggcaat 60  
tatcccaaca aattanactc ccctctgtca tgtcaatatt ggaattgtag ctcacaggtg 120  
tttgcttana tcagtcaccc agagaggaag aatgatagag aaaacttggtg ctctgacact 180  
actgattcctt acatagtggg acaatatcctt tcttgataat gaattgtagt tattataaat 240  
cgggtgatcac gtgaccctaa aggcacccaa ataaatcctt agtaaaataa ttctgatgac 300  
acaatgaatg aattatcttt aaggcatttt cttggactag caatgtattc ttagagtggc 360  
gactgaatgt gcataacctc atgatccatg ttttactcat tcnnnggtcc ccaggccacc 420  
cagggcaacc aggccctcct ggacctcctg ggn 453

<210> 895  
<211> 596  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (283)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (312)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (457)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (525)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (528)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (537)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (553)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (570)  
<223> n equals a,t,g, or c

<400> 895  
gccacgcgt ncgcccacgc gtccgagaaa ttgaaacctg gcgcaataga tatagtaccg 60  
caagggaag atgaaaaatt atagccaagc ataatatagc aaggactaac ccctatacct 120  
tctgcataat gaattaacta gaaataactt tgcaaggaga gccaaagcta agacccccga 180  
aaccagacga gctacctaag aacagctaaa agagcacacc cgtctatgta gcaaaatagt 240  
gggaagattt ataggtagag gcgacaaacc taccgagcct ggngatagct ggtgcccaaga 300

tagaatctta gntcaacttt aaatttgccc acagaaccct ctaaatcccc ttggaaattt 360  
aactggtagt ccaaagagga acagctcttt ggacactagg aaaaaacctt ggagagagag 420  
taaaaaattt aacacccata gtaggcctaa aagcagncac caattaagaa agcgntcaag 480  
ctcaacaccc actacctaata aaatcccaaa catataactg aactnctnac acccaantgg 540  
accaatctat canctatag aagagctaan ggtaggataa ggaacatgaa aacatt 596

<210> 896

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c .

<400> 896

gaaagaagga aactagctcg gaccgtgcag gtttgtaggt ctgttggcct gtaggtttcg 60  
gcacaagttt cagcgagaga aggagaaaac tgccttggtt ggaaccttgc agtgcaggga 120  
aaggggtgtg gcggcctttg ctggggaaat ggcgagacgac aagtggggcg gaggaggcct 180  
gcntccggaa agtcagtaga attcatcaca agagagctac aagagcctgg aagaagctga 240  
agacttgcta ccctccatcc ttacttcacc ctgggacctg aggagacctc ttcaatcaga 300  
aatggaaaca gagagattct cctgggaaac ccctgccccca taaacggccc t 351

<210> 897

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 897

ggcanaggna gagagagaga gagaactagt ctogtgtttt tttttttttt ttttgggna 60  
aaaatttnat tt 72

<210> 898

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (359)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (362)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<400> 898  
ggcacgaggg ggaaatcgcg gtcttagcat ccggcgcgcg gcggttgga ttgctgcgcc 60  
cacgaggcaa ccgctccgga acgccangtg ggggcgaggc gtctcggagt ctcagagaca 120  
ccaaggcccc tgcgacaagg tggtgcagc taggcgggg gcgtcaggac gacgggagcg 180  
ggttcgggtc ggtgacacgc agacctgagg gagctgggcc cgcntnttcc gcccgcgccc 240  
cagcccttgc agatcgagat ttgcgtccta nnatggggaa aaaagcagag gccagggcgc 300  
cgattttatt tggagagaag caagcttctt tgnctcttt tgggattag aaatttcana 360  
cntggnaaaa atggtgtgtg gtt 383

<210> 899  
<211> 172  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (97)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (131)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<220>



<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<400> 899

ggcacgagct tgttcgtctc actggtgtga ctccagcatc ccccttgctc gaaatggacc 60  
ccaactgctc ttgcgccact ggtggctcct gcacgtncgc cggctcctgc aattncaaag 120  
agtgcaaag nacctcctgc aanaagagct gctgttcctg ntgccccgtg ga 172

<210> 900

<211> 101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<400> 900

gcagcagcac aggcgcgggt cccgggaang gccggctctn ctgcgccta gatntggaat 60  
ctccttcacg aaaccgactc ggctgtggnc accgcgcgnc g 101

<210> 901

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<400> 901

```
ggcacgagga cagtctgcct gggncacagc cctctnacc tggtactgca tgcacgcaat 60
gctagctgcc cctttcccg cctgggcacc ccgagnttcc cccgaccccg ggtcccaggt 120
atgctccca ctcacactgc cccactcacc acctctgcct agttccagac acctccacgc 180
ccacctggtc ctctcccatc gcccacaaaa gggggggcac gagggaacga gcttagctga 240
gctgggagga gcagggtgag ggtgggcgac ccaggattcc ccctcccttc ccaattaaag 300
atgaggggtat taaattgtct tggtttttaa tttantatta nttttttnnt ttttccan 358
```

<210> 902

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (386)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (391)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (420)  
<223> n equals a,t,g, or c

<400> 902  
atttcctggc tgacctgcta gtccccacaa aagccagggt ccctgcattt gaactctgaa 60  
aggatagcat gccacctgca actcactgca tgaccctttc tgtatattca aaccaagct 120  
aagtgccttc gttgctttcc aaggaaacaa agagtcaaac tgtggacttg attttgtag 180  
cttttttcag aatttatctt tcattcagtt cccttcatt atcatttact tttacttaga 240  
agtatccaag gaagtctttt aactttaatt tccatttctt cctaaaggga gaggtagtga 300  
tatgtacagt gttttggaga tgtatacata tattccagaa ctngggggaa tcttattaag 360  
ttatggatat accaccgtaa cgggtcnaaaa ngtttaaaga acccatncgg taaggtaatn 420  
ggg 423

<210> 903  
<211> 362  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (116)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (177)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (273)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (305)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (309)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<400> 903  
attcggcacg agagtattta gttggggcat gaataagtaa agtatgtaaa gaggcgtgat 60  
agtnagggct gagtgggtat caccttctcg gtgagaaaat caatttcctg agagtnttgt 120  
aaactaggac ttagagtact aatcatggtg tttttcagaa attatatata tatttttnaag 180  
tcagggtctc accgtgtcgc ccaggctgga ggcagagggt gtggctcgtg ccgaattcga 240  
tatcaagctt atcgataccg tcgacctcga ggnngggggc cggtacccaa ttcgccctat 300  
tagtnagtng gtattacaat tcactgggcc gtcgttttta aaacgggggt nactggggaa 360  
ac 362

<210> 904  
<211> 309  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (107)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (150)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (162)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (179)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (250)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (267)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (278)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (292)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<400> 904  
ggctgaggag agggcggaag tgtccgcacg tcgggcctcc gaggtttctc tttctcccct 60  
ggcgggtccgg ctctcgatgg tggcgtgacg ggggcggggg tggcgngcg ttctcctcgg 120  
ttgggaagga accagcccgc gaaccaggn cgggaagggg gntcggcctn ngggggaang 180  
gactgacatg tctctcgaag accccttttt tgtagtccga ggcgaggtgc agaaagcgg 240  
gaacacgggn ccgcgggctg taccagnct ggtgcganct cctgcaagaa ancncggcgt 300  
tcggaacgc 309

<210> 905  
<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 905

```
ggcagaggggc caaagtaacc ttntaatgtc cggtctgggtt tggacagcaa caccggctgg 60
nnctgnaccc aggagcagct gcaccacttg naaagtcgcc tcatctccta agcactcctt 120
tccctgnng tcccttctga accctgaagc cctctgggtgc gcgctctgcc cgatgcacag 180
ccacctaaagc nagccccag gttagaaacg tgggttaaag ctcttgctg ccccgtaaaa 240
gcttcactcc naccctttta agcgtcctgc cccttcacct tgaacccggg ttccccatt 300
ccanttctg ggctttgnca tgatttggtt ggttcaatgg ttccttcttt cctgaggggg 360
cttnagggtt ttgngggggg ntaagggtt 388
```

<210> 906

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (91)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (219)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<400> 906  
ggcacgaggt ttttannttg tactcttttg gatggngttg catttataa tcttaacccg 60  
aggggtgtgtt tcaacttatg tacgtactgt ntcattgcagg tttatagcac ggtagagtag 120  
aaggcggtct ctgatttttaa ggggtattttt agaattcatt cctgaatgan gggttcagac 180  
acccagtctc ctcggaacag ggggtgagggg tcgactganc tttgttgaga agcctccagt 240  
taaggcttcg ggcgggtctc catgttggtat tgtgtgttta ctgagcttcc cactgggttag 300  
aagatgacac atttgnccat cgtcctgtgt atctganatt cccagggga 349

<210> 907  
<211> 469  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (38)



<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (216)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (279)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (292)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (302)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (306)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (322)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (331)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 907

```
gacaatacac nttactacca gacaacctta gccaaacnat ntacccaaat aangtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc angggaaaga tgaaaaatta 120
taaccaagca taatatanca nggactaacc cctatacctt ntgcataatg aattaactag 180
anataactnt gcaaggagag ncnaagctaa gaccncgaa accagacgag ctacctaaga 240
acagntaaaa gagcacaccc gtatatgtag caaaatagng ggaagattta tnggtagagg 300
cnacanacct accgagcctg gngatatgct ngntgtccaa gataagaatc ntaggttaac 360
ttttaaattt ggccacagaa ccctttttaa tccnttgga aatttaactg gtaagcccaa 420
agaggaacaa gttttttgga cactngggaa aaaaccttgn anaanagag 469
```

<210> 908

<211> 95

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (81)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (93)  
<223> n equals a,t,g, or c

<400> 908  
ggcaccgagcc cacacccacc caagaacagg gtttggttaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaaa aaaaaaannn nggggggggc ccngt 95

<210> 909  
<211> 373  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (80)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (222)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (225)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (271)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 909

```
ggtggccagc tgttactggg tttaaaacag gactgtttct tgттаagatg ggggaactgc 60
tttcctgccaa aaagtgccan agatcaactt ggaaaacaaa atcctcacag agggagagta 120
aagaacactt gattagtctc attagcacct gtagctactt ttctaaagtt aattcctgaa 180
ggcccttgaa agcttcacta tgagattgaa tttgcaccat tncncaatg gtctttgcaa 240
tgaggggatgg gggatagtgt gatggtcctt nccaaccatc cctggaagaa gaagccaaaa 300
aactttttcc cgaaaggagt tctttcaccn aagnagntcc catctgggca ggaaattacc 360
tccgggnaac ana 373
```

<210> 910

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (691)

<223> n equals a,t,g, or c

&lt;400&gt; 910

```
gtatagatca tacttatgaa ggtgataact gacacgtggt ccttgaattt taatttgata 60
ggcaatacat ctaccactc cattatTTTT taaaacttca tttaatagtt taaacaagat 120
tggttttggt ttcaattttt attcactctt catagaatca caattacctt tatatatcat 180
atgttattgg aagagattcc tcagtaatct ccaatctctc atagtgcctc acaggggttg 240
tcaatggctt ttggaactgg aaggacctta gaacttatct gttatgctcc tgatagccaa 300
tagcagatag aagcttgcaa tcaagagggt aggacatgtg ttcttcaatg gatatcaaag 360
gaagagggtg caaaccaaag ccatttggca agccctgtag cctgggccat ttaagacagg 420
ggcgggtctc gccaaattgc acccatttaa ctatcccaa gagccacaag tgcctacaac 480
ccaggcccta agttgatgaa gaaaaagtca aggaangagg tgatcaattg gaaatattcc 540
catcaaattg gtaaacttat ttagaaaatg ggcatattag aaaaagcctt ccaagatgat 600
tttgataat aaaagtggat ttgnggnaat gggaataact ctgggtaagc cctaattat 660
cccttacatt tggtttaggg acctactgac ntaaattaag gaaacatggt aaagtacctt 720
g 721
```

&lt;210&gt; 911

&lt;211&gt; 564

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (338)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (342)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (365)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (366)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (370)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature  
<222> (411)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (445)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (481)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (493)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (494)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (505)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (525)  
<223> n equals a,t,g, or c

<400> 911  
ggcgacgcct agaagctccc cttcaaagtt ggccccacgc gctgaatgtg gaaagttgac 60  
tgggacccag tagtttccca tcccaaacct gctttccgag aagggttca aacccaaaat 120  
gtgaatcccg cctcccctct cagccagaac tgtggactcg tcccggggag gggcggtggg 180  
tggggcgggg ctggcgggaa atttcggttt tggcgcgctc cctgcggcga cgctccatcg 240  
tgcgctctcc tcttcccccg gtggtctcct cgctcgctt ctggctctgc atgccctgct 300  
ctgaagagac acccgccatt tcacccagta agcgggcncg gntgcggaag tgggcggcat 360  
gcagnnccgn tttgcncggt tttegagcaa gccaaaggccc caacgggggt ngggcgcgcg 420  
gggggttaaga ctgtaaaatg gctangatta aacataccac tatggagaaa tttntgaaa 480  
nggaattcaa aanngtcctt ttgngtaat gaaaatggtc aagtnagggt ggtgaaaaat 540  
ttttgattag actgggtaaa atga 564

<210> 912  
<211> 408  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (380)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (383)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (395)  
<223> n equals a,t,g, or c

<400> 912  
tcgacccacg cgtccgcggt gctcggagtg tgggtacttct cctagttgca gtcaggcttc 60  
atacgctatt gtcctgcccc ttagagcagc cagcgggtac agaattggatt ttggaagagg 120  
gagtcaccac tggacctcca aggaagccac gtgcagacat ctacaacctt cgatctcctg 180  
acgagtttat tggtggccaa aaccaggctt tgattgaacc aggatgaatg cgggtgttg 240  
aagtagaata tatatataca tataaaattg gttgggagcc acgtgtacca gtgtgtgttg 300  
atcttggtt gattcagtct gccttgtaac agaactggcg atggaatatg agaggagccn 360  
ctggaaagaa aaggacagan ccnntgcttt catgnaagtg agatctgg 408

<210> 913  
<211> 355  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (139)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature



<222> (141)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (246)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (331)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (346)  
<223> n equals a,t,g, or c

<400> 913  
ggcacagggg tgagtgtttc tcctgcgttg ctccgagggc ccaatcctcc tgccatcgcc 60  
gccatcctgg cttcgggggc gccggcctcc agggcccgga aaggagaact cctagggcta 120  
ctaaatcctc gctggaggng ntggcttctt atgcgggagg acgtggcgga gggcctgact 180  
ttgggagccg ggggttgact ggattggtga ggcccgtgtg gctacttctg tggaagcagt 240  
gctgtnagtt actggaagat aaaagggaaa gcaagccctt ggtgggggaa atatggctgc 300  
gatgatggca ttcttaggac accttggnnta ntantgaaac aantancctc gagca 355

<210> 914  
<211> 377  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (143)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (275)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (314)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (368)  
<223> n equals a,t,g, or c

<400> 914  
cgaggncgtgc tggcgccggg ggccccgtgc gcggcctgct cgtcggcctc gtgcgccaac 60  
aacgccttcg ccttcggtec ggagctcagc agcctcatca cgcgcgtcgc catccagacc 120  
cacaactttg ccgccgtggc cgcgcgcgcc tactaccgca gtcagcagca gcagcagcag 180  
cagggcctgg cgcgcgcgcg gcagcgccgg cgcgcgcag cgcgaccctc cccgcccggg 240  
ccgcccgcacc tccctcgccg cccttcagct tccanctgcc gcgcgcgcct tgtccgantic 300  
gcccgtgttt ngangcggcc cccaagcncc cgggattcg ctgttcggaa cgggaaagta 360  
acttaaancg gggttcct 377

<210> 915  
<211> 509  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature

<222> (133)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (166)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (226)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (431)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (482)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (493)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (501)  
<223> n equals a,t,g, or c

<400> 915  
ggcagagtgg gaagaaagta agtgggcagt gcctgtttgt tgaactggta ccaacctctg 60  
cctctccctt ccaaattctt ggtgccacca ttgagaaact ccaggattgt cctgcagatc 120  
gacaacgccc gtntggctgc agatgaactt ccgaaccaag taagtntctc tntcctgggg 180  
gctgcagaag ccaggactgg ggtagggggtt ggggggttta ggaatntgcc ctcacctagc 240  
ctagatggcc tgaagctaaa cccccctatg gactcctgaa ctctggggag gtaggggaagt 300  
cttcagagat gctgaggaag ctctgcctgg ctgcaactat tttccttgaa aggtttgaga 360  
cggaacaggt ttgcgcatga gcgtggtagg ccgacatcaa cggctgngca ggtgctggat 420

gagctgacct ngccagaccg acctggagat gcaatcgaag gcctaaggag agttggctac 480  
tnaagaggac ctgagagtgg nttaagttg 509

<210> 916

<211> 135

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<400> 916

ntaccagcaa attacttcat catcnagatt atccattcag ttgatcctaa ttagcaanga 60  
tnacaacgta acacaangct tactttatagc acccaacaaa antgtctctg tgganccact 120  
tcccagtga ctaca 135

<210> 917

<211> 230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (92)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (228)  
<223> n equals a,t,g, or c

<400> 917  
tcgacccacg cgtccggctt ctccgctcct tctaggatct ccgcctgggt cggnccgcct 60  
gcctccantc ctgcctctan catgtccatc angngnacc agaagtccta caaggngtcc 120  
anctctgggc cccggggctt cagcagccgn tcctacacga gtgggnccgg ttcccgcata 180  
agctcctcga gnttctcccg agtgggnagc agcaactttc gcggtggnet 230

<210> 918  
<211> 529  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (286)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (297)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (410)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (427)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (429)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (461)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (481)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (489)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (519)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (526)  
<223> n equals a,t,g, or c

<400> 918  
ggcagagctt tttcctcctc ggctgcggcc gttgtcctcg gagcgcggtc cctgtattgg 60  
tctcctgctc ctagagggttg agaacaaaaa catgcacctg gagtttcccc ggagccctct 120  
gcgtgggttg gcttcgggtg aatttcgggg ctcttggtcg ccagcgcgct tgcctggtag 180  
caacagaaac cagtctctgt cgcctccgtg gacatttcat taccatccag aagtgtctcc 240

cactgaaggc atccgtgggt gtttttaagc cacaaaaaag ccacancaa gatcacntga 300  
caaccaccct gacaagtgtt ccatgatgtt gggncngag ggaggtgaag gtttttgtgg 360  
tcaagttcct tggngtgcct tgncccggt tttttgagga cgtgcanaan ttcccttttg 420  
actgaangnt tcaagttggg gcccgaagg tccatttaat nacattgggg gggcaagcaa 480  
nattggtgng gtttttttga attggttcaa aggtgtttna aaatgnccc 529

<210> 919

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (156)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (178)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (179)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (215)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (230)  
<223> n equals a,t,g, or c

<400> 919  
nagccctgcg gatggctctc catggntccc tagtgccctg gagaggaggt gtntagtga 60  
agagtagtcc tgggaagatg ggcctctntg aagnagccac ggggacagca tcntgcagat 120  
ggcctggcc ctntccac cgacctgtct acaagnactg tgcctcgtgg accctccnnt 180  
ctggcacagg aagctggacc cttaaagtccc ttgtgccacc ggccaggaan tggtagcc 238

<210> 920  
<211> 442  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (268)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (303)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (382)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 920

```
ggcacgagag attaagttag gacaagaagc aagagttcaa ggatagaagg cctactgaag 60
ctcgagtgat ttgagaaaac ttacaaaagg tggaaaatct acgtgggcct ccgaaagtca 120
gatttgacaa gatcaaagct gcaggaaaat ggacagtgaag gttcagagag atggaaggat 180
cttggatttg attgatgatg cttggcgaga agacaagctg ccttatgagg atgtcgcaat 240
accactgaat gagcttcctg anccctganca agacaatggg ggaccacag atctgtcaaa 300
gancaagaaa tgaagtggac agacttagcc ttacagtacc tccatgagaa tggtccccc 360
attggaaact gacgtttggc tncntctctg tggatggatt ttctcaaagt acacagataa 420
agcatgggtg tttcagtcgt cc 442
```

<210> 921

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 921

```
caatggcggg cgccctccc ccagcctcgt tgccgccttg cagtttgatc tcagactgct 60
gtgttagcaa tcagcgagac tccgtgggca taggaacctc cgagccaggt gcgggatgta 120
atctcgtggt gcaccgtttt ttaagccagt ccgaaaagcg caatattcgg gtgggagtga 180
cccaattttc caggtgcgtc cgtcacctc ttctttgact cggaaaggga actccctgac 240
cccttgcgct tcccaagtga ggcaatgctc tccctgcttc ggctcgaca cgggtgcgcgc 300
anccactgac ctgtgcccac tgtctggcac tccctagtgt agatgaaccg gtacctcaga 360
tggaaatgca gaaatcancc gtcttctgcg tcaactcatgc tggagctgta gaccggagct 420
gttcctaata cggcatttgn tcct 444
```

<210> 922

<211> 394  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (268)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (286)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (294)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (318)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (370)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (372)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (374)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (388)  
<223> n equals a,t,g, or c

<400> 922  
gaaccgggta gcttgggccag gttgtgagga accgcagcgc gccgcaggac cggggccgctg 60  
agcctgcagc cgccccgcgc cgtgacctgc gaccctagac cccgactccc tttggctcag 120  
cccgcgcgcc ccaggccccg cccgggcggc gcgacgggag gatgagcggc gggcggcgga 180  
aggaggagcc gcctcagccg cagctggcca acggggccct caaagtctcc gtctggagta 240  
aggtgctgcg gacgacgcgg cctggganga taagataatt ttaagngtga ctantggttc 300  
cgacaatatt ctgtgtcntg gtgtcaattt gggattttcc ataacaggtt cttggaatac 360

agatttgctn anantcagat ctgtactnaa ttca

394

<210> 923

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (341)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<400> 923

gcaaaacccc actctgcatc aactgaacgc aaatcagcca ctttaattaa gctaagccct 60  
tactagacca atgggactta aaccacaaaa cacttagtta acagctaagc accctaataca 120  
actggcttca atctacttct cccgccgccg ggaaaaaagg cgggagaagc cccggcaggt 180  
ttgaagctgc ttcttcgaat ttgcaattca atatgaaaat cacctcggag ctggtaaaaa 240  
gaggcctaac ccctgtcttt agatttacag tccaatgctt cactcagcca ttttacctca 300  
cccccaaaaa aaaaaaaaaa aaaaaaaacc ncgggggggg ncccggnncc na 352

<210> 924

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (433)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (436)  
<223> n equals a,t,g, or c

<400> 924  
ccactccacc ttactaccag acaaccttag ccaaaccatt tacccaaata aagtataggc 60  
gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat gaaaaattat 120  
aaccaagcat aatatagcaa ggactaacc ctataccttc tgcataatga attaaactaga 180  
aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc tacctaagaa 240  
cagctaaaag agcacacccg tctatgtagc aaaatagtgg gaagatttat aggtagaggc 300  
gacaaaacct cccagcctgg tgatagctgg ttgtccaaga tagaatctta gttcaacttt 360  
aaatttgncc acagaaccct ctaaatcccc ttgtaaattt aactgggttag tccaaagagg 420  
gacagctctt tgnngnn 436

<210> 925  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 925  
cccaaacc ca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60  
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa 120  
aaattataac caagcataat atagcaagga ctaaccctta taccttctgc ataataaatt 180  
aactagaaat aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac 240  
ctaagaacag ctaaaagagc acaccctgtct atgtagcaaa atagtgggaa gatttatagg 300  
tagaggcgac aaacctaccg agcctgggtga tagctgggtg tccaagatag aatcttttagt 360  
tcaactttta atttgccac agaacctcta aatccccttg taaatttaac tggtaagtcc 420  
caaggaggac agtcttttg 439

<210> 926  
<211> 183  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (179)  
<223> n equals a,t,g, or c

<400> 926  
caatctatca ccctatagaa gaactaatgt tagtataagt aacatgaaaa cattctcctc 60

cgcataagcc tgcgtcagat taaaacactg aactgacaat taacagccca atatctacaa 120  
tcaaccaaca agtcattatt accctcactg tcaaccaaac aaaaaaaaaa aaaaaaana 180  
aaa 183

<210> 927  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 927  
cggaagtggg ggaaagatgg aggaccatca gcacgtgccc atcgacatcc agaccagcaa 60  
gctgctcgat tggctggtgg acagaaggca ctgcagcctg aaatggcaga gtctggtgct 120  
gacgatccgc gagaagatca atgctgccat ccaggacatg ccagagagcg aagagatcgc 180  
ccagctgctg tctgggtcct acattcacta ctttcactgc ctaagaatcc tggaccttct 240  
caaaggcaca gaggcctcca cgaagaatat ttttggccga tactcttcac agcggatgaa 300  
ggattggcag gagattatag ctctgtatga gaaggacaac acctacttag tggaactctc 360  
tagcctcctg gttcggaatg tcaactatga gatccctca ctgaagaagc agattgccaa 420  
gtgccagcag ct 432

<210> 928  
<211> 439  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (86)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (413)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (439)  
<223> n equals a,t,g, or c

<400> 928  
agacaacctt agccaaacca tttaacccaaa taaagtatag gcgatagaaa ttgaaacctg 60  
gcgcaataga tatagtaccg caaggnaaag atgaaaaatt ataaccaagc ataatatagc 120  
aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180  
gccaaagcta agacccccga aaccagacga gctacctaaag aacagctaaa agagcacacc 240  
cgtctatgta gcaaaatagt gggaagattt ataggtagag gcgacaaacc taccgagcct 300  
ggtgatagct ggttggtccaa gatagtatct tagttcaact tttaaatttgc ccacagaacc 360

ctctaaatcc ccttgtaaatt ttaactgtta gtcccaagag ggacagctct ttngncacta 420  
gggaaaaacc ttgtagggn 439

<210> 929

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 929

ctgcattcag cattttaagg atttatattc atagtcacgc gccgcttaag gaggattcat 60  
tctgtgaaat gagttgtag gcagtttcat tgtgcgagca tcatagggtg aacttacaca 120  
aacctagggt gcagagccta ctgcacacct cggctgtgtg gtctaacctg ttgctcctgg 180  
actgcaaacc tgtacagcct gttactgtcc tgaatactgc aggcagttag aacagagtgg 240  
tacatagttg tgtttctaaa catatcggaa cctagaaaag gtacagtaga aatacgggtat 300  
tacaatctta tgggaccact gtctgtgtgc ggtctgttgt tgactgaaat gttatgcagt 360  
acatgggctg ccatgagatt accttganaa ttttgcctga tatgaaacct agatatnacc 420  
ttaaatatgg gna 433

<210> 930

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 930

```
gtcccccaact cggagctcct ccagcccgcct tcccgtatatt gcagcatgtc ccggcggttca 60
cagagcttggt ctgcctcctc tgtcccagga gagagatgct tagagctgtc ctcccaggga 120
gtcatgtcag cctctaggggt gtgcatggga gctgagggga cactcctgct gcctccctgg 180
agtggtaatt aaccgggact ttctcctccc cagaaccaac atcccgggta acggttgggc 240
tgaaggacag gtgacgtgtc cctaactccc ccccttccct gcccgagggt ccggcatcca 300
acgtcttggt ttcttggtct tcaagcagga cnaccgattg gcttttctga agangcaagn 360
ccttaacctg gtaanttaaa acaaccanaa 390
```

<210> 931

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (232)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c



<220>  
<221> misc feature  
<222> (311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 931  
cggtacgcgt gggcggacgc gtgggcggac gcgtggggcc atctcacctc ttcattctct 60  
tgttacattt gaagcagttg atataatggg ttataacttt aaaagataga catggtgcca 120  
tgaagttggg gagttgggtg aattatccca ttctagttag agangagctt tccttaaagt 180  
ccctttaact tctaggtttt gttcnagaag ttcattttct gagttaaaag tnattttcat 240  
atatgtttgg gggaaaatta atcctcctc aaaaagaatc cttattaggt tanttnaact 300  
ccttaaaact naaccnaatc 320

<210> 932  
<211> 265  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (256)  
<223> n equals a,t,g, or c

<400> 932  
aaaaaagata tattaacagt tttagaagtc agtagaataa aatcttaaag cactcataat 60  
atggcatcct tcaatttctg tataaaagca gatcttttta aaaagatact tctgtaactt 120  
aagaaacctg gcatttaaat catattttgt ctttaggtaa aagctttggg ttgtgttcgt 180  
gtttgtttg tttcacttgt ttccctccca gccccaaacc ttttgttctc tccgtgaaac 240  
ttacctttcc cttttncttt ctctt 265

<210> 933  
<211> 475  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (5)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (12)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (49)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (102)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (463)  
<223> n equals a,t,g, or c

<400> 933  
gtggnggcgc tnc tagaact atggatcccc cggctgncag gattacggnc acgagcaagg 60  
gcagtgttac acttatgagg aactgtctct agccatccag gnaagtacta ctgggtctga 120  
gggatggaaa gttcttcctg ctatgaatga gagtggactc tccccctcac cccaactga 180  
aaccacaaac aaccagaatc ttctggaatt ctgacttaga gtcgttggtta tagaagacct 240  
tggtgctatg gaacatgaaa ctgtgtgtca gatggagaga tccccctaac ctaagagcct 300  
taaatagccc tgaaagtaca ctgggacggg ttgcatgga attaaaattg gaagtgatat 360  
tttaggtgc tcttgaaagc tttctgggga ctcaaaatta tcaaaagtca gggacagtcc 420  
ggaggaagag cgtctgcaaa actgggttcc tagaagtata gancggactt agctg 475

<210> 934  
<211> 322  
<212> DNA  
<213> Homo sapiens

<400> 934  
ataaacaaca tctccagaca gatctacctg accgacaacc ctgaggcagt cgcatcaag 60  
ttgaatcaga ccgctctgca agcagtgact cccattacaa gttttggaaa aaaacaagaa 120  
agctcatgcc ccagccagaa cctgaaaaat tcagagatgg aaaatgaaaa tgacaagatt 180  
gttcccaaag caacagccag tctacctgaa gcagaggagc tgatcgcgcc tggaacgccg 240  
attcaattcg atattgtgct tcctgctaca gaattccttg atcagaacag agggagcagg 300  
cgtaccaacc cttttggtga aa 322

<210> 935  
<211> 378  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (121)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (122)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (124)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (301)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (326)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (327)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (356)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (365)  
<223> n equals a,t,g, or c

<400> 935  
ggcagaggag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60  
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttcttgc 120  
nnangccggt gggaaacata catttattca tgccagtctg ttgcatgcag gctttttggc 180  
ttcctacctt gcaacaaaat gaattgcacc aactccttag tgccgattcc gcccacagag 240  
agtccctggag ccacagtctt ttttgctttg cattgttagga gagggactaa gtgctagaga 300  
ntatgtcgtt ttccctgagc taaccnngag cgttcgtgga actgggatca aactgnnttc 360  
agggnaaaag gaaaaaaa 378

<210> 936

<211> 450  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (202)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (230)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (304)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (396)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (401)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 936

```
ggtggtaagt ggcttcgtgg tctttatagc tggtactctt ttgtactttg tctttttctt 60
ttattttctt ttgagcgatt gtgcgaacat agcatagcac gcactatgcc ttctgtgttg 120
tagctgcctg gccagggcga ctggcggata aggtcttgtg cgtggcctcg angcttaaaa 180
gtaacagtgg ggctttgtga angacaaaat ggcgatggcg ggccgtgtan gtcccccttc 240
ctatgatgaa agaccttttc acagacctgt tactgaactc cgtgaagata aatantctga 300
aganatnggc cctgcaagcc tcttgcttac ccgtcctgtt ccaaaaaaat acgttttcca 360
aaatgccctg aatttgaact aatntcttat tgggcncccg ntctgccaga tttaccnca 420
ctttggaaca aaaaaaanc tttgtttgc 450
```

<210> 937

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<400> 937

```
agtcttaaga ccaannaagc acgnaagcgc cgtgaagagc gcctccaggc caagnaggag 60
gngatcatca agactttatc caaggaggaa gagaccaaga aataaaacct cccactttgt 120
ctgtacatac tggcctctgt gattacatag atcagccatt gaaaataaaa caagncttaa 180
tctgcanata ngacaagnan aaaatttcg                                     209
```

<210> 938

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 938

```
cagaactgat agaacaaaca ctactctttt gaatttgatg gttcgtgtcc tttaaagtgt 60
ttgaggacct atgcagagcc tgtaacactt gggtagtacc tgctaggaca atttcttggc 120
aattgtctta ctactaggga tcagtaagat ttagattctg agcccataat ggcaacagcc 180
ccctcaccta tgggaagctg acttcctcca gtcgggacct tctcatgggg gctgaacatg 240
gttcctgccca ttctgttacc cactctccca ggtgagccct ggattggctc ccagaaggcc 300
ttgtaaaaat ccatagccat cctgcaggca gtgggagcaa caggggcttt catagcttca 360
tttccngtct tgcagacaag gaccctgggn aacatgtgct gctaatanga taattactcc 420
gttgncncaa ttaccag 437
```

<210> 939

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 939

```
cngacgcgtg ggtcgaccna cgcgtccgcc cacgcgtccg cccacgcgtc cgacgacaga 60
aggggtacggc tgcgagaaga cgcagaaggg tacggctgcg agaagacgnn agaaggggct 120
tttcacattc gggaaacgtc gggattaggt gaaagtacgt agttgtcttt cgtaagtcaa 180
aatgataatt gggccgaaac ttactgcctt acctaaaagg cagcgcagtc aggatattgg 240
taggtcgggg gcggcttttg aaacccttaa gtttacaagc atgcgcggac ttgagtgtctc 300
attaggtcgc cgggcgtcca cgtgcagccc tggaccctga accccggcgt gcgttgggccg 360
tnggcctcgg ggaaggttc cgtgcactcg gggantccgg tgaagctgtt cagccgtctg 420
tgncatgtgg ccatcttgan tctactctgt 450
```

<210> 940

<211> 233

<212> DNA

<213> Homo sapiens

<400> 940

```
ggagcgcttg tgggagccct ggaggggaact ttcccagtc cagaggcgga tcgggtgttg 60
catccatgga gcgagctgag agctcgagta cagaacctgc taaggccatc aaacctattg 120
atcagaagtc agtccatcag atttgctctg ggcaggtggt actgagtcta agcactgcgg 180
taaaggagtt agtagaaaac agtctggatg ctggtgccac taatattgat cta 233
```

<210> 941

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 941

His Glu Cys Ala Cys Leu Pro Gly Tyr Ala Gly Asp Gly His Gln Cys  
 1 5 10 15  
 Thr Asp Val Asp Glu Cys Ser Glu Asn Arg Cys His Pro Ala Ala Thr  
 20 25 30  
 Cys Tyr Asn Thr Pro Gly Ser Phe Ser Cys Arg Cys Gln Pro Gly Tyr  
 35 40 45  
 Tyr Gly Asp Gly Phe Gln Cys Ile Pro Asp Ser Thr Ser Ser Leu Thr  
 50 55 60  
 Pro Cys Glu Gln Gln Gln Arg His Ala Gln Ala Gln Tyr Ala Tyr Pro  
 65 70 75 80  
 Gly Ala Arg Phe His Ile Pro Gln Cys Asp Glu Gln Gly Asn Phe Leu  
 85 90 95  
 Pro Leu Gln Cys His Gly Ser Thr Gly Phe Cys Trp Cys Val Asp Pro  
 100 105 110  
 Asp Gly His Glu Val Pro Gly Thr Gln Thr Pro Pro Gly Ser Thr Pro  
 115 120 125  
 Pro His Cys Gly Pro Ser Pro Glu Pro Thr Gln Arg Pro Pro Thr Ile  
 130 135 140  
 Cys Glu Arg Trp Arg Glu Asn Leu Leu Glu His Tyr Gly Gly Thr Pro  
 145 150 155 160  
 Arg Asp Asp Gln Tyr Val Pro Gln Cys Asp Asp Leu Gly His Phe Ile  
 165 170 175  
 Pro Leu Gln Cys His Gly Lys Ser Asp Phe Cys Trp Cys Val Asp Lys  
 180 185 190  
 Asp Gly Arg Glu Val Gln Gly Thr Gly Xaa Pro Ala Arg His His Pro  
 195 200 205  
 Cys Val Tyr Thr His Arg Arg Ser Xaa His Gly Pro Ala His Ala Pro  
 210 215 220  
 Ala Arg Cys Xaa Pro Ser Ile Cys Gly Gln Leu Pro Gly Ala  
 225 230 235

&lt;210&gt; 942

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 942

Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr  
 1 5 10 15

Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly  
 20 25 30

Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His  
 35 40 45

Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly  
 50 55 60

Met Ser Lys Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala  
 65 70 75 80

Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp  
 85 90 95

Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser  
 100 105 110

Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro  
 115 120 125

Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Arg Thr Lys Asp Ser  
 130 135 140

Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp  
 145 150 155 160

Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu  
 165 170 175

Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp  
 180 185 190

Gly Met Asn Ser Ser Lys Ile Ser Ile Lys Leu Ser Lys Asp His Asp  
 195 200 205

Asn Asp Asn Asn Leu Tyr Val Ala Lys Leu Asn Asn Gly Phe Asn Ser  
 210 215 220

Gly Ser Gly Ser Ser Ser Thr Lys Leu Lys Ile Gln Leu Lys Arg Asp  
 225 230 235 240

Glu Glu Asn Arg Gly Ser Tyr Thr Glu Gly Leu His Glu Asn Gly Val  
 245 250 255

Cys Cys Ser Asp Pro Leu Ser Leu Leu Glu Ser Arg Met Glu Val Asp  
260 265 270

Asp Tyr Ser Gln Tyr Glu Glu Glu Ser Thr Asp Asp Ser Ser Ser Ser  
275 280 285

Glu Gly Asp Glu Glu Glu Asp Asp Tyr Asp Asp Asp Phe Glu Asp Asp  
290 295 300

Phe Ile Pro Leu Pro Pro Ala Lys Arg Leu Arg Leu Ile Val Gly Lys  
305                      310                      315                      320

Asp Ser Ile Asp Ile Asp Ile Ser Ser Arg Arg Arg Glu Asp Gln Ser  
325 330 335

Leu Arg Leu Asn Ala  
340

<210> 943

<211> 196

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 943

Xaa Leu Leu Lys Val Trp Arg Ala Xaa Gln Val Ser Val Ala Tyr Asn  
1 5 10 15

Ser Leu Asp Phe Glu Pro Glu Ile Phe Phe Ala Leu Gly Ser Pro Ile  
20 25 30

Ala Met Phe Leu Thr Ile Arg Gly Val Asp Arg Ile Asp Glu Asn Tyr  
35 40 45

Ser Leu Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro Leu Asp  
 50 55 60  
 Pro Val Ala Tyr Arg Leu Glu Pro Met Ile Val Pro Asp Leu Asp Leu  
 65 70 75 80  
 Lys Ala Val Leu Ile Pro His His Lys Gly Arg Lys Arg Leu His Leu  
 85 90 95  
 Glu Leu Lys Glu Ser Leu Ser Arg Met Gly Ser Asp Leu Lys Gln Gly  
 100 105 110  
 Phe Ile Ser Ser Leu Lys Ser Ala Trp Gln Thr Leu Asn Glu Phe Ala  
 115 120 125  
 Arg Ala His Thr Ser Ser Thr Gln Leu Gln Glu Glu Leu Glu Lys Val  
 130 135 140  
 Ala Asn Gln Ile Lys Glu Glu Glu Glu Lys Gln Val Val Glu Ala Glu  
 145 150 155 160  
 Lys Val Val Glu Ser Pro Asp Phe Ser Lys Asp Glu Asp Tyr Leu Gly  
 165 170 175  
 Lys Val Gly Lys Val Lys Trp Arg Pro Pro Xaa Leu Thr Thr Phe Ser  
 180 185 190  
 Lys Lys Asn Gln  
 195

<210> 944

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944

Pro His Gly Leu Arg Cys Pro Ser Cys Pro Gln Thr Ala Val Ser Arg  
 1 5 10 15  
 Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg Arg Arg Ile  
 20 25 30  
 Gln Glu Leu Glu Glu Arg Arg Arg Xaa Phe Val Glu Ala Cys Arg Ala  
 35 40 45

Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro His Arg Val  
 50 55 60

Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala Ser Glu Val  
 65 70 75 80

Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe Ile Asn Arg  
 85 90 95

Glu

<210> 945  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 945  
 Ser Gly Ser Pro Gly Leu Gln Glu Phe Arg Ala Pro Gly Val Gln Gln  
 1 5 10 15

Asp Glu Arg Leu Ala Ser Pro Ile His Ser Thr Tyr Ile Pro Ile Pro  
 20 25 30

Thr Ser Ala Ile Cys Ala Thr Gly Ser Asn Gly Ser Ala Pro Thr Arg  
 35 40 45

Ile Ser Val Gln Cys Leu Ser Pro Ala Thr Thr Gly Ser Ala Ser Val  
 50 55 60

Asp Leu Cys Cys Thr Arg Asp Ile Ser Leu Leu Pro Gly Glu Pro Pro  
 65 70 75 80

Ile Ala Val Pro Thr Gly Val Phe Gly Pro Leu Pro Thr Gly Ser Val  
 85 90 95

Gly Leu Leu Phe Asp Leu Ser Ser Leu Asn Leu Lys Gly Val Gln Val  
 100 105 110

His Thr Gly Val Ile Asp Ser Asp Ile Gln Val  
 115 120

<210> 946  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 946

Gly Phe Leu Gly Leu Leu Phe Met Pro Gln Ala Thr Tyr Pro Gly Glu  
1 5 10 15

Ser Leu Pro Val Leu Leu His Glu Phe Leu Ser His Arg Met His Val  
20 25 30

Pro Leu His Phe Val Thr Ser Val Ser Pro Thr Arg Gln  
35 40 45

&lt;210&gt; 947

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (133)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

Gly Pro Arg Arg Gly Pro Gly Pro Gly Gly Cys Ala Ala Pro Ala Thr  
1 5 10 15

Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Xaa Leu Xaa Glu Val Thr  
20 25 30

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro  
35 40 45

Gln Gly Ala Ser Ser Leu Pro Xaa Thr Met Asn Tyr Pro Leu Trp Ser  
50 55 60

Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser Thr  
65 70 75 80

Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val  
85 90 95

Ala Lys Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Xaa Glu Pro  
100 105 110

Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Lys Leu Ala Ser  
115 120 125

Thr Ser Phe Xaa Xaa Ile Phe Lys Gln Lys Leu Ser Asp Phe Leu Cys  
130 135 140

Asn Leu Xaa Phe Trp His Ser Lys Leu Glu Trp Xaa Val Gly Pro Pro  
145 150 155 160

<210> 948

<211> 53

<212> PRT

<213> Homo sapiens

<400> 948

Ser Asn Trp Ile Ile Asp Cys Asn Cys Leu Glu Ile Tyr His Lys Asn  
1 5 10 15

Arg Leu Cys Phe Phe Gly Ile Ala Pro Asn Phe Ser Leu Leu Leu Arg  
20 25 30

Ala Ala His Ala Val Leu Ser Ser Tyr Trp Ser Gln Pro Leu Gly Glu  
35 40 45

Glu Arg Asn Ala Trp  
50

<210> 949

<211> 154

<212> PRT

<213> Homo sapiens

<400> 949

Trp Asp Tyr Ile Leu Cys Ala Gly Leu Arg Glu His Glu Gly Ala  
1 5 10 15

Ile Cys His Thr Leu Glu Ala Glu Ala Cys Thr Ser Ala Ala Arg Leu  
20 25 30

Thr Val Val Gly Gly Gly Asp Gly Asn Cys Arg Ser Ala Arg Val Val  
35 40 45

Glu Lys Leu Leu Gln Gly Phe Ser Gly Phe Ala Cys Pro Ala Ala Pro  
50 55 60

Cys Leu Ala Arg Gly Glu Gly Gly Ala Thr Cys Gly Thr Leu Glu Ala  
65 70 75 80

Gly Ala Cys Arg Trp His Gly Ser Ala Ala His Leu Ala Ala Val Gly  
85 90 95

Gly Gly Asp Arg Asp Cys Ser Leu Thr Val Val Asn Leu Glu Ile Ile  
100 105 110

Cys Leu Glu Ala Leu Ser Leu Ser Trp Asp Leu Lys Arg Arg Gly Ser  
115 120 125

Pro Asn Ser Gln Gln Ser Asn Ser Lys Trp Cys Cys Lys Leu Asn His  
130 135 140

Thr Trp Thr Gly His Ser Ser Glu Asp Pro  
145 150

<210> 950



<211> 442  
 <212> PRT  
 <213> Homo sapiens

<400> 950

Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp  
 1 5 10 15

Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys  
 20 25 30

Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala  
 35 40 45

Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe  
 50 55 60

Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val  
 65 70 75 80

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile  
 85 90 95

Asp Ala Met Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr  
 100 105 110

Gly His Val Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr  
 115 120 125

Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr  
 130 135 140

Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln  
 145 150 155 160

Lys Leu Gly Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu  
 165 170 175

Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile  
 180 185 190

Ser Ala Asn Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile  
 195 200 205

Met Pro Tyr Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val  
 210 215 220

Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln  
 225 230 235 240

Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu



```

Ile Phe Pro Leu Ala Val Phe Leu Cys Ser Leu Leu Pro Leu Phe Phe
      35                      40                      45

Pro Trp Phe Val Ile Ile Arg Arg Glu Val Leu Gln Arg Leu Val Ala
      50                      55                      60

Val Lys Glu Ser Phe Phe Asn Phe Tyr Pro Arg Val Ser His Phe Tyr
      65                      70                      75                      80

Ser Arg

```

```
<210> 952
<211> 475
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (465)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>  
<221> SITE  
<222> (468)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 952
Leu Val Leu Pro Leu His Ala Val Glu Lys Thr Gly Arg Pro Gly Gln
  1                      5                      10                      15
Pro Ala Leu Lys Met Pro Gly Lys Leu Arg Ser Asp Ala Gly Leu Glu
      20                      25                      30
Ser Asp Thr Ala Met Lys Lys Gly Glu Thr Leu Arg Lys Gln Thr Glu
      35                      40                      45
Glu Lys Glu Lys Lys Glu Lys Pro Lys Ser Asp Lys Thr Glu Glu Ile
      50                      55                      60
Ala Glu Glu Glu Glu Thr Val Phe Pro Lys Ala Lys Gln Val Lys Lys
      65                      70                      75                      80

```

Lys Ala Glu Pro Ser Glu Val Asp Met Asn Ser Pro Lys Ser Lys Lys  
85 90 95

Ala Lys Lys Lys Glu Glu Pro Ser Gln Asn Asp Ile Ser Pro Lys Thr  
100 105 110

Lys Ser Leu Arg Lys Lys Lys Glu Pro Ile Glu Lys Lys Val Val Ser  
115 120 125

Ser Lys Thr Lys Lys Val Thr Lys Asn Glu Glu Pro Ser Glu Glu Glu  
130 135 140

Ile Asp Ala Pro Lys Pro Lys Lys Met Lys Lys Glu Lys Glu Met Asn  
145 150 155 160

Gly Glu Thr Arg Glu Lys Ser Pro Lys Leu Lys Asn Gly Phe Pro His  
165 170 175

Pro Glu Pro Asp Cys Asn Pro Ser Glu Ala Ala Ser Glu Glu Ser Asn  
180 185 190

Ser Glu Ile Glu Gln Glu Ile Pro Val Glu Gln Lys Glu Gly Ala Phe  
195 200 205

Ser Asn Phe Pro Ile Ser Glu Glu Thr Ile Lys Leu Leu Lys Gly Arg  
210 215 220

Gly Val Thr Phe Leu Phe Pro Ile Gln Ala Lys Thr Phe His His Val  
225 230 235 240

Tyr Ser Gly Lys Asp Leu Ile Ala Gln Ala Arg Thr Gly Thr Gly Lys  
245 250 255

Thr Phe Ser Phe Ala Ile Pro Leu Ile Glu Lys Leu His Gly Glu Leu  
260 265 270

Gln Asp Arg Lys Arg Gly Arg Ala Pro Gln Val Leu Val Leu Ala Pro  
275 280 285

Thr Arg Glu Leu Ala Asn Gln Val Ser Lys Asp Phe Ser Asp Ile Thr  
290 295 300

Lys Lys Leu Ser Val Ala Cys Phe Tyr Gly Gly Thr Pro Tyr Gly Gly  
305 310 315 320

Gln Phe Glu Arg Met Arg Asn Gly Ile Asp Ile Leu Val Gly Thr Pro  
325 330 335

Gly Arg Ile Lys Asp His Ile Gln Asn Gly Lys Leu Asp Leu Thr Lys  
340 345 350

Leu Lys His Val Val Leu Asp Glu Val Asp Gln Met Leu Asp Met Gly  
 355 360 365

Phe Ala Asp Gln Val Glu Glu Ile Leu Ser Val Ala Tyr Lys Lys Asp  
 370 375 380

Ser Glu Asp Asn Pro Gln Thr Leu Leu Phe Ser Ala Thr Cys Pro His  
 385 390 395 400

Trp Val Phe Asn Val Ala Lys Lys Tyr Met Lys Ser Thr Tyr Glu Gln  
 405 410 415

Val Asp Leu Ile Gly Lys Lys Thr Gln Lys Thr Ala Ile Thr Val Glu  
 420 425 430

His Leu Ala Ile Lys Cys His Trp Thr Gln Arg Ala Ala Val Ile Gly  
 435 440 445

Asp Val Ile Arg Val Tyr Ser Gly His Gln Gly Arg Thr Ile Ile Phe  
 450 455 460

Xaa Glu Thr Xaa Xaa Glu Ala Gln Glu Leu Ser  
 465 470 475

<210> 953

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 953

His Glu Ala Lys Trp Ala Arg Glu Glu Glu Glu Ala Gln Arg Arg Leu  
 1 5 10 15

Glu Glu Asn Arg Leu Arg Met Glu Glu Glu Ala Ala Arg Leu Arg His  
 20 25 30

Glu Glu Glu Glu Arg Lys Arg Lys Ala Leu Glu Val Gln Arg Gln Lys  
 35 40 45

Glu Leu Met Arg Gln Arg Gln Gln Gln Glu Ala Leu Arg Arg Leu  
 50 55 60

Gln Gln Gln Gln Gln Gln Gln Gln Leu Ala Gln Met Lys Leu Pro Ser  
 65 70 75 80

Ser Ser Thr Trp Gly Gln Gln Ser Asn Thr Thr Ala Cys Gln Ser Gln  
85 90 95

Ala Thr Leu Ser Leu Ala Glu Ile Gln Lys Leu Glu Glu Glu Arg Glu  
100 105 110

Arg Gln Xaa Arg Glu Glu Gln Arg Arg Gln Gln Arg Glu Leu Met Lys  
115 120 125

Ala Leu Gln Gln Gln Gln Gln Gln Gln Gln Lys Leu Ser Gly Trp  
130 135 140

Gly Asn Val Ser Lys Pro Ser Gly Thr Thr Lys Ser Leu Leu Glu Ile  
145 150 155 160

Gln Gln Glu Glu Ala Arg Gln Met Gln Lys Gln Gln Gln Gln Gln  
165 170 175

Gln His Gln Gln Pro Asn Arg Ala Arg Asn Asn Thr His Ser Asn Leu  
180 185 190

His Thr Ser Ile Gly Asn Ser Val Trp Gly Ser Ile Asn Thr Gly Pro  
195 200 205

Pro Asn Gln Trp Ala Ser Asp Leu Val Ser Ser Ile Trp Ser Asn Ala  
210 215 220

Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp Asp Ala Val Lys Glu  
225 230 235 240

Val Gly Pro Arg Asn Ser Thr Asn Lys Asn Lys Asn Asn Ala Ile Ser  
245 250 255

Val Asn Leu

<210> 954

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 954

Ile	Val	Tyr	Val	Pro	Ser	His	Leu	His	His	Met	Xaa	Phe	Glu	Leu	Phe
1			5						10					15	

Xaa	Asn	Ala	Met	Arg	Ala	Thr	Val	Glu	His	Gln	Glu	Asn	Gln	Pro	Xaa
		20						25					30		

Leu	Thr	Pro	Ile	Glu	Val	Ile	Val	Ala	Leu	Gly	Lys	Glu	Asp	Leu	Thr
	35						40					45			

Ile	Lys	Ile	Ser	Asp	Arg	Gly	Gly	Gly	Val	Pro	Leu	Arg	Ile	Ile	Asp
	50					55					60				

Arg	Leu	Phe	Ser	Tyr	Thr	Tyr	Ser	Thr	Ala	Pro	Thr	Pro	Val	Met	Asp
65					70					75				80	

Asn	Ser	Arg	Asn	Ala	Pro	Leu	Ala	Gly	Phe	Gly	Tyr	Gly	Leu	Pro	Ile
			85							90				95	

Ser	Arg	Leu	Tyr	Ala	Lys	Tyr	Phe	Gln	Gly	Xaa	Leu	Asn	Leu	Tyr	Ser
		100						105						110	

Leu	Xaa	Gly	Tyr	Gly	Thr	Asp	Ala	Ile	Ile	Tyr	Leu	Lys	Ala	Leu	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115                      120                      125  
 Thr Xaa Cys Gln Phe Leu Val Cys Met Gln Ser Thr Phe Lys Glu Xaa  
 130                      135                      140

<210> 955  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 955  
 Thr Arg Pro Arg Thr Arg Gly Leu Trp Arg Pro Gly Trp Arg Cys Val  
 1                      5                      10                      15  
 Pro Phe Cys Gly Trp Arg Trp Ile His Pro Gly Ser Pro Thr Arg Ala  
 20                      25                      30  
 Ala Glu Arg Val Glu Pro Phe Leu Arg Pro Glu Trp Ser Gly Thr Gly  
 35                      40                      45  
 Gly Ala Glu Arg Gly Leu Arg Trp Leu Gly Thr Trp Lys Arg Cys Ser  
 50                      55                      60  
 Leu Arg Ala Arg His Pro Ala Leu Gln Pro Pro Arg Arg Pro Lys Ser  
 65                      70                      75                      80  
 Ser Asn Pro Phe Thr Arg Ala Gln Glu Glu Arg Arg Arg Gln Asn  
 85                      90                      95  
 Lys Thr Thr Leu Thr Tyr Val Ala Ala Val Ala Val Gly Met Leu Gly  
 100                      105                      110  
 Ala Ser Tyr Ala Ala Val Pro Leu Tyr Arg Leu Tyr Cys Gln Thr Thr  
 115                      120                      125  
 Gly Leu Gly Gly Ser Ala Val Ala Gly His Ala Ser Asp Lys Ile Glu  
 130                      135                      140  
 Asn Met Val Pro Val Lys Asp Arg Ile Ile Lys Ile Ser Phe Asn Ala  
 145                      150                      155                      160  
 Asp Val His Ala Ser Leu Gln Trp Asn Phe Arg Pro Gln Gln Thr Glu  
 165                      170                      175  
 Ile Tyr Val Val Pro Gly Glu Thr Ala Leu Ala Phe Tyr Arg Ala Lys  
 180                      185                      190



Asn Pro Thr Asp Lys Pro Val Ile Gly Ile Ser Thr Tyr Asn Ile Val  
 195 200 205

Pro Phe Glu Ala Gly Gln Tyr Phe Asn Lys Ile Gln Cys Phe Cys Phe  
 210 215 220

Glu Glu Gln Arg Leu Asn Pro Gln Glu Glu Val Gly Tyr Ala Ser Val  
 225 230 235 240

Phe Leu His

<210> 956

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 956

Gly Leu Val Val Thr Leu Leu Thr His Xaa Phe Xaa Ile Asn Ser Xaa  
 1 5 10 15

Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn  
 20 25 30

Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe  
 35 40 45

Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met  
 50 55 60

Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile  
 65 70 75 80

Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe Leu Ser Ile  
                     85                    90                    95  
 Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr  
                     100                    105                    110  
 Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val  
                     115                    120                    125  
 Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly  
                     130                    135                    140  
 Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Asn Arg Cys Phe Gly Ser  
                     145                    150                    155                    160  
 Lys Phe Cys Leu Asn Leu Ala Asp Gly Tyr Gly Asn Pro Leu Thr Phe  
                     165                    170                    175  
 Gln Asn Asn Ile Tyr Thr His Thr  
                     180

&lt;210&gt; 957

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 957

Ser Arg Ser Pro Val Leu Asp Pro Ser Glu Pro Gln Pro Leu Ala Ala  
     1                    5                    10                    15  
 Met His Val Ile Lys Arg Asp Gly Arg Gln Glu Arg Val Met Phe Asp  
                     20                    25                    30  
 Lys Ile Thr Ser Arg Ile Gln Lys Leu Cys Tyr Gly Leu Asn Met Asp  
                     35                    40                    45  
 Phe Val Asp Pro Ala Gln Ile Thr Met Lys Val Ile Gln Gly Leu Tyr  
                     50                    55                    60  
 Ser Gly Val Thr Thr Val Glu Leu Asp Thr Leu Ala Ala Glu Thr Ala  
                     65                    70                    75                    80  
 Ala Thr Leu Thr Thr Lys His Pro Asp Tyr Ala Ile Leu Ala Ala Arg  
                     85                    90                    95

Ile Ala Val Ser Asn Leu His Lys Glu Thr Lys Lys Val Phe Ser Asp  
 100 105 110

Val Met Glu Asp Leu Tyr Xaa Leu His Lys Ser Thr  
 115 120

<210> 958

<211> 117

<212> PRT

<213> Homo sapiens

<400> 958

Ser Ile Met Phe Val Ala Leu Met Lys Tyr Phe Gln Glu Met Cys Pro  
 1 5 10 15

Gly Val Ala Leu Ala Met Leu Thr Arg Pro Leu Val Thr Gln Arg Ala  
 20 25 30

Leu Gly Pro Asp Gly Asp Leu Pro Leu Arg Phe Leu Tyr Gln Ala Leu  
 35 40 45

Ser Ser His Gly Ala Ser Gly Thr Ser Leu Leu Ser Trp Glu Lys Gly  
 50 55 60

Asn Trp Leu Pro Arg Gln Val Val Glu Ser Val Ala Gly Thr Arg Leu  
 65 70 75 80

Glu Ala His Leu Val Val Asn Arg Ala Gln Trp Gly Arg Leu Gly Met  
 85 90 95

Leu Trp Ser Met Gly Leu Phe Pro Gly Glu Cys Ser Gly Met Ser Ser  
 100 105 110

Gln Leu Leu Trp Cys  
 115

<210> 959

<211> 267

<212> PRT

<213> Homo sapiens

<400> 959

Ser Met Pro Gly Trp Arg Leu Leu Thr Gln Val Gly Ala Gln Val Leu  
 1 5 10 15

Gly Arg Leu Gly Asp Gly Leu Gly Ala Ala Leu Gly Pro Gly Asn Arg

20	25	30
Thr His Ile Trp Leu Phe Val Arg Gly Leu His Gly Lys Ser Gly Thr		
35	40	45
Trp Trp Asp Glu His Leu Ser Glu Glu Asn Val Pro Phe Ile Lys Gln		
50	55	60
Leu Val Ser Asp Glu Asp Lys Ala Gln Leu Ala Ser Lys Leu Cys Pro		
65	70	75
80		
Leu Lys Asp Glu Pro Trp Pro Ile His Pro Trp Glu Pro Gly Ser Phe		
85	90	95
Arg Val Gly Leu Ile Ala Leu Lys Leu Gly Met Met Pro Leu Trp Thr		
100	105	110
Lys Asp Gly Gln Lys His Val Val Thr Leu Leu Gln Val Gln Asp Cys		
115	120	125
His Val Leu Lys Tyr Thr Ser Lys Glu Asn Cys Asn Gly Lys Met Ala		
130	135	140
Thr Leu Ser Val Gly Gly Lys Thr Val Ser Arg Phe Arg Lys Ala Thr		
145	150	155
160		
Ser Ile Leu Glu Phe Tyr Arg Glu Leu Gly Leu Pro Pro Lys Gln Thr		
165	170	175
Val Lys Ile Phe Asn Ile Thr Asp Asn Ala Ala Ile Lys Pro Gly Thr		
180	185	190
Pro Leu Tyr Ala Ala His Phe Arg Pro Gly Gln Tyr Val Asp Val Thr		
195	200	205
Ala Lys Thr Ile Gly Lys Gly Phe Gln Gly Val Met Lys Arg Trp Gly		
210	215	220
Phe Lys Gly Gln Pro Ala Thr His Gly Gln Thr Lys Thr His Arg Arg		
225	230	235
240		
Pro Gly Ala Val Ala Thr Gly Asp Ile Gly Arg Val Trp Pro Gly Thr		
245	250	255
Lys Met Pro Gly Lys Met Gly Lys Cys Gly Glu		
260	265	

&lt;210&gt; 960

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 960

Pro Arg Val Arg Ala Arg Trp Arg Arg Gly His Phe Phe His Cys Pro  
1 5 10 15

Ser Glu Gly Thr Leu Ser Ser Val Ser Gly Ala Val Phe Gln Leu Arg  
20 25 30

Val Val Pro Arg Glu Ser Glu Arg Pro Ser Pro Gly Trp Cys Asp Gly  
35 40 45

Arg Gly Gly Gly Gln Ala Gly Arg Ala Ala Val His Gln Arg Gly Gly  
50 55 60

Arg Ala Gly Gln Arg Arg Arg Pro Gly Leu Leu Pro Asp Leu Gly Val  
65 70 75 80

Ser Ala Val Gly Gly His Gly Arg His Pro Arg Pro His Arg Pro Leu  
85 90 95

Arg Leu His Leu Leu Pro Ala Arg Leu Arg Pro Ala Leu Pro Ala Pro  
100 105 110

His Ser Gln Gly Gly Lys Glu Val Glu Gln Ile Phe Gln Ile Thr Glu  
115 120 125

Thr Ser Leu Tyr Arg Arg Pro His Arg Gly Pro Leu His Leu Arg Pro  
130 135 140

Val Leu Asp Val Pro Leu Arg His Gly Ala Arg Leu Leu Lys Trp Gly  
145 150 155 160

Pro Gly Gly Leu Phe  
165

&lt;210&gt; 961

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 961

Thr Ala Thr Thr Glu Val Glu Val Leu Asp Met Xaa Val Leu Pro Leu

1 5 10 15  
Val Tyr Ile Leu Met Asn Ile Asp Val Asn Lys Lys Gly Lys Lys Gln  
20 25 30  
Asn Thr Arg Phe Phe Pro Ile Leu Met Leu Ala Pro Ser Lys Ser Leu  
35 40 45  
Pro Thr Arg Met Asn Thr Phe Pro Lys Leu Asn Lys Phe Leu Phe Ile  
50 55 60  
Lys Leu Arg Leu Lys Phe Val Gly Leu Gly Ser Phe Leu Lys Pro Arg  
65 70 75 80  
Ala Cys Pro Leu Pro Thr Pro Pro Ser Phe Ala Pro Lys  
85 90

<210> 962  
<211> 173  
<212> PRT  
<213> Homo sapiens

<400> 962  
Glu Pro Lys Ala Lys Pro His Arg Ser Arg Gly Ser Gly Thr Arg Ala  
1 5 10 15  
Val Arg Arg Arg Ser Cys Leu Gln Ser Ala Ala Glu Ala Ala His Gly  
20 25 30  
Pro Asp Thr Pro Ala Ala Arg Ala Leu Gln Ser Leu Gly His Pro Val  
35 40 45  
Val Gly Asp Leu Thr Tyr Gly Glu Val Ser Gly Arg Glu Asp Arg Pro  
50 55 60  
Phe Arg Met Met Leu His Ala Phe Tyr Leu Arg Ile Pro Thr Asp Thr  
65 70 75 80  
Glu Cys Val Glu Val Cys Thr Pro Asp Pro Phe Leu Pro Ser Leu Asp  
85 90 95  
Ala Cys Trp Ser Pro His Thr Leu Leu Gln Ser Leu Asp Gln Leu Val  
100 105 110  
Gln Ala Leu Arg Ala Thr Pro Asp Pro Asp Pro Glu Asp Arg Gly Pro  
115 120 125  
Arg Pro Gly Ser Pro Ser Ala Leu Leu Pro Gly Pro Gly Arg Pro Pro  
130 135 140

Pro Pro Pro Thr Lys Pro Pro Glu Thr Glu Ala Gln Arg Gly Pro Cys  
 145 150 155 160

Leu Gln Trp Leu Ser Glu Trp Thr Leu Glu Pro Asp Ser  
 165 170

<210> 963  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 963  
 Ser Ser Arg Gly Glu Pro Arg Ala Ala Leu Leu Cys Lys Arg Ser Asp  
 1 5 10 15

Val Leu Leu Glu Pro Phe Arg Arg Gly Val Met Glu Lys Leu Gln Leu  
 20 25 30

Gly Pro Glu Ile Leu Gln Arg Glu Asn Pro Arg Leu Ile Tyr Xaa Xaa  
 35 40 45

Leu Ser Gly Phe Gly Gln Ser Gly Lys Leu Leu Pro Val Ser Trp Pro  
 50 55 60

Arg Tyr Gln Leu Phe Gly Phe Cys Ser Gly Gly Arg Xaa Gln His Ile  
 65 70 75 80

<210> 964

<211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 964

Ala	Glu	Ala	Leu	Gly	Ser	Pro	Cys	Phe	Pro	Gln	Asp	Leu	Leu	Leu	Ala
1				5					10					15	
Asn	Arg	Ser	Ser	Arg	Gln	Leu	Leu	Gln	Cys	Val	Ser	His	Pro	Ala	Asn
			20					25					30		
Arg	Ser	Val	Cys	Ile	Ser	Val	Lys	Glu	Asn	Ser	Leu	Val	Pro	Pro	Gly
		35					40					45			
Ser	Ala	Trp	Lys	Leu	Asp	Ala	Asn	Phe	Tyr	Ile	Ala	Trp	Gln	Thr	Asp
	50					55					60				
Gln	Gln	Cys	Gln	Ala	Leu	Ile	Cys	Ile	Leu	His	Tyr	Pro	Phe	Thr	Trp
65					70					75					80
Phe	Leu	Ala	Leu	Asn	Gly	Leu	Gln	Pro							
				85											

<210> 965  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 965

Gly	Arg	Ala	Ser	Glu	Arg	Ala	Ser	Arg	Gln	Gln	Ala	Ala	Gly	Gly	Arg
1				5					10					15	
Ala	Asp	Gly	Thr	Glu	Gly	Gly	Ser	Glu	Arg	Ala	Val	Ser	Lys	Pro	Ala
			20					25					30		
Arg	Ala	Val	Gly	Ser	Arg	Gly	Gln	Pro	Arg	Phe	Leu	Arg	Ser	Leu	Arg
		35					40					45			
Pro	Pro	Pro	Trp	Ser	Pro	Gln	Arg	Leu	Arg	Cys	Pro	Glu	Asp	Arg	Thr
	50					55					60				
Arg	Pro	Gly	Pro	Ala	Met	Ala	Ser	Leu	Leu	Lys	Val	Asp	Gln	Glu	Val
65					70					75					80



Lys Leu Lys Val Asp Ser Phe Arg Glu Arg Ile Thr Ser Glu Ala Glu  
85 90 95

Asp Leu Val Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser  
100 105 110

Phe Leu Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His  
115 120 125

Ser Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser  
130 135 140

His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp Glu  
145 150 155 160

Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro Asn Gly  
165 170 175

Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu Lys Val Lys  
180 185 190

Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr Val Lys Met Trp  
195 200 205

Val Gln Leu Leu Ile Pro Arg Ile Glu Xaa Gly Asn Asn Phe Gly Val  
210 215 220

Ser Ile Gln Glu Glu Thr Val Ala Glu Leu Arg Thr Val Glu Ser Glu  
225 230 235 240

Ala Ala Ser Tyr Leu Asp Gln Ile Ser Arg Tyr Tyr Ile Thr Arg Ala  
245 250 255

Lys Leu Val Ser Lys Ile Ala Lys Tyr Pro His Val Glu Asp Tyr Arg  
260 265 270

Arg Thr Val Thr Glu Ile Asp Glu Lys Glu Tyr Ile Ser Leu Arg Leu  
275 280 285

Ile Ile Ser Glu Leu Arg Asn Gln Tyr Val Thr Leu His Asp Met Ile  
290 295 300

Leu Lys Asn Ile Glu Lys Ile Lys Arg Pro Arg Ser Ser Asn Ala Glu  
305 310 315 320

Thr Leu Tyr

<211> 314  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (300)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 966  
 Val Ser Pro Gln Lys Ala Ala Ser Leu Val Arg Ile Arg Trp Arg His  
           1                  5                  10                  15

Val Arg Pro Ser Pro Pro Ser Ala Ser Arg Leu Arg Arg Leu Pro Pro  
                   20                  25                  30

Arg His Leu Thr Val Ala Xaa Arg Pro Arg Arg Glu Gly Val Gly Thr  
           35                  40                  45

Gly Ser Arg Ala Val Leu Cys Ile Leu Ala Thr Cys Gly Ser Lys Met  
           50                  55                  60

Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr Arg Tyr  
           65                  70                  75                  80

Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys Leu Gly Leu  
                   85                  90                  95

Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala Phe Leu Tyr Arg  
           100                  105                  110

Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe Tyr Phe Pro Val Gly  
           115                  120                  125

Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn Leu Tyr Phe Leu Tyr Gln  
           130                  135                  140

Tyr Ser Thr Arg Leu Glu Thr Gly Ala Phe Asp Gly Arg Pro Ala Asp  
           145                  150                  155                  160

Tyr Leu Phe Met Leu Leu Phe Asn Trp Ile Cys Ile Val Ile Thr Gly  
           165                  170                  175

Leu Ala Met Asp Met Gln Leu Leu Met Ile Pro Leu Ile Met Ser Val  
           180                  185                  190

Leu Tyr Val Trp Ala Gln Leu Asn Arg Asp Met Ile Val Ser Phe Trp  
 195 200 205

Phe Gly Thr Arg Phe Lys Ala Cys Tyr Leu Pro Trp Val Ile Leu Gly  
 210 215 220

Phe Asn Tyr Ile Ile Gly Gly Ser Val Ile Asn Glu Leu Ile Gly Asn  
 225 230 235 240

Leu Val Gly His Leu Tyr Phe Phe Leu Met Phe Arg Tyr Pro Met Asp  
 245 250 255

Leu Gly Gly Arg Asn Phe Leu Ser Thr Pro Gln Phe Leu Tyr Arg Trp  
 260 265 270

Leu Pro Ser Arg Arg Gly Gly Val Ser Gly Phe Gly Val Pro Pro Ala  
 275 280 285

Ser Met Arg Arg Ala Ala Asp Gln Asn Gly Gly Xaa Gly Arg His Asn  
 290 295 300

Trp Gly Gln Gly Phe Arg Leu Gly Asp Gln  
 305 310

<210> 967

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 967

Thr Ser Ser Asp Thr Leu Thr Val Leu Ser Arg Ala Arg Leu Gly Ser  
 1 5 10 15

Leu Leu Trp Gln Asn Leu Gly Ser Gln Glu Val Leu Val Pro Gly Asn  
 20 25 30

Ser Cys Phe Ser Gly Ala Gly Leu Tyr Ser Leu Gln Pro Leu Ala Leu  
 35 40 45

Pro Ser Trp Asn Gln Gly Gln Arg Leu Ser Pro Thr Leu Val Ser Ile  
 50 55 60

Phe Gln Lys Thr Gly Asn Ala Val Arg Ala Ile Gly Arg Leu Ser Ser  
 65 70 75 80

Met Ala Met Ile Ser Gly Leu Ser Gly Arg Lys Ser Ser Thr Gly Ser  
 85 90 95

Pro Thr Ser Pro Leu Asn Ala Glu Lys Leu Glu Ser Glu Glu Asp Val  
 100 105 110

Ser Gln Ala Phe Leu Glu Ala Val Ala Glu Glu Lys Pro His Val Lys  
 115 120 125

Pro Tyr Phe Ser Lys Thr Ile Arg Asp Leu Glu Val Val Glu Gly Ser  
 130 135 140

Ala Ala Arg Phe Asp Cys Lys Ile Glu Gly Tyr Pro Asp Pro Glu Val  
 145 150 155 160

Val Trp Xaa Gln Arg Trp Thr Ser Ser Ile Arg Glu Ser Arg Xaa Phe  
 165 170 175

Pro Asp Arg Leu Arg  
 180

<210> 968

<211> 291

<212> PRT

<213> Homo sapiens

<400> 968

His Gly Ala Gly Glu Ser Glu Pro Ser Ser Arg Val Pro Arg Arg Ala  
 1 5 10 15

Ala Ser Pro Gly His Val Pro Arg Leu Arg Gly Thr Arg Pro Glu Leu  
 20 25 30

Arg Glu Arg Arg Arg Val Arg Arg Pro Arg Ala Pro Pro Ala Ala Ala  
 35 40 45

Gln Ala Ala Gln Gln Lys Phe His Leu Val Pro Ser Ile Asn Thr Met  
 50 55 60

Ser Gly Ser Gln Glu Leu Gln Trp Met Val Gln Pro His Phe Leu Gly  
 65 70 75 80

Pro Ser Ser Tyr Pro Arg Pro Leu Thr Tyr Pro Gln Tyr Ser Pro Pro

85	90	95
Gln Pro Arg Pro Gly Val Ile Arg Ala Leu Gly Pro Pro Pro Gly Val 100	105	110
Arg Arg Arg Pro Cys Glu Gln Ile Ser Pro Glu Glu Glu Glu Arg Arg 115	120	125
Arg Val Arg Arg Glu Arg Asn Lys Leu Ala Ala Ala Lys Cys Arg Asn 130	135	140
Arg Arg Lys Glu Leu Thr Asp Phe Leu Gln Ala Glu Thr Asp Lys Leu 145	150	155 160
Glu Asp Glu Lys Ser Gly Leu Gln Arg Glu Ile Glu Glu Leu Gln Lys 165	170	175
Gln Lys Glu Arg Leu Glu Leu Val Leu Glu Ala His Arg Pro Ile Cys 180	185	190
Lys Ile Pro Glu Gly Ala Lys Glu Gly Asp Thr Gly Ser Thr Ser Gly 195	200	205
Thr Ser Ser Pro Pro Ala Pro Cys Arg Pro Val Pro Cys Ile Ser Leu 210	215	220
Ser Pro Gly Pro Val Leu Glu Pro Glu Ala Leu His Thr Pro Thr Leu 225	230	235 240
Met Thr Thr Pro Ser Leu Thr Pro Phe Thr Pro Ser Leu Val Phe Thr 245	250	255
Tyr Pro Ser Thr Pro Glu Pro Cys Ala Ser Ala His Arg Lys Ser Ser 260	265	270
Ser Ser Ser Gly Asp Pro Ser Ser Asp Pro Leu Gly Ser Pro Thr Leu 275	280	285
Leu Ala Leu 290		

&lt;210&gt; 969

&lt;211&gt; 313

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

**<222> (62)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

$\langle 222 \rangle$  (121)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

**<222> (137)**

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$  (312)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

$\langle 222 \rangle$  (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 969

Glu Glu Glu Lys Lys Asp Ser Gly Val Ala Ser Thr Glu Asp Ser Ser  
1 5 10 15

Ser Ser His Ile Thr Ala Ala Ala Ile Ala Ala Lys Lys His Pro Phe  
20 25 30

Tyr Thr Xaa Pro Ala Val Val Met Ala His Gly Glu Gln Pro Ile Pro  
35 40 45

Gly Leu Ile Asn Tyr Ser His His Ser Thr Asp Glu Arg Xaa Pro Asp  
50 55 60

Ser Ile Ile Ser Arg Gly Val Gln Val Leu Pro Arg Asp Thr Ala Ser  
65 70 75 80

Leu Ser Thr Thr Pro Ser Glu Ser Pro Arg Ala Gln Ala Thr Ser Arg  
85 90 95

Leu Ser Thr Ala Ser Cys Pro Thr Pro Lys Val Gln Ser Arg Cys Ser  
100 105 110

Ser Lys Glu Asn Ile Leu Arg Ala Xaa His Ser Ala Val Asp Ile Thr  
115 120 125

Lys Val Ala Arg Arg His Arg Met Xaa Pro Phe Pro Leu Thr Ser Met  
130 135 140

Asp Lys Ala Phe Ile Thr Val Leu Glu Met Thr Pro Val Leu Gly Thr  
145 150 155 160

Glu Ile Ile Asn Tyr Arg Asp Gly Met Gly Arg Val Leu Ala Gln Asp  
165 170 175

Val Tyr Ala Lys Asp Asn Leu Pro Pro Phe Pro Ala Ser Val Lys Asp  
180 185 190

Gly Tyr Ala Val Arg Ala Ala Asp Gly Pro Gly Asp Arg Phe Ile Ile  
195 200 205

Gly Glu Ser Gln Ala Gly Glu Gln Pro Thr Gln Thr Val Met Pro Gly  
210 215 220

Gln Val Met Arg Val Thr Thr Gly Ala Pro Ile Pro Cys Gly Ala Asp  
225 230 235 240

Ala Val Val Gln Val Glu Asp Thr Glu Leu Ile Arg Glu Ser Asp Asp  
245 250 255

Gly Thr Glu Glu Leu Glu Val Arg Ile Leu Val Gln Ala Arg Pro Gly  
260 265 270

Gln Asp Ile Arg Pro Ile Gly His Asp Ile Lys Arg Gly Glu Cys Val  
275 280 285

Leu Ala Lys Gly Thr His Met Gly Pro Ser Glu Ile Gly Leu Leu Ala  
290 295 300

Thr Val Gly Val Thr Glu Val Xaa Xaa  
305 310

<210> 970

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 970

His Met Lys Lys Gln Leu Leu Val Pro Asp Tyr Gly His Phe His Val

1 5 10 15  
Xaa Glu Phe Leu Lys Leu Ser Leu Leu Arg Met Val Leu Leu Pro Ala  
20 25 30  
Asp Ser Tyr Leu Phe Val Phe Ser Ser Phe  
35 40

<210> 971  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 971  
Gln Lys Asp Arg Glu Ile Arg Ile Phe Cys Ala Glu Ser Pro Lys Phe  
1 5 10 15  
Pro Pro Glu Cys Asn Leu Gln Leu Pro Tyr Leu Leu Ser His Met Pro  
20 25 30  
Ser Asn Met Leu Asp Trp Leu Ile His Arg Pro Thr Gln Asn Thr Asn  
35 40 45  
Val Thr Cys Ser Cys Ser Leu Val Ala Ile Cys Leu Phe Ser Met Tyr  
50 55 60  
Pro Ala Trp  
65

<210> 972  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 972  
Ile Val Phe Phe Phe Ser Leu Phe Tyr Lys Cys Gln Phe Asn Ser Arg  
1 5 10 15  
Ala Leu Ala Gln Tyr Phe Leu Met Ile Phe Ser Pro Arg Lys Arg Arg  
20 25 30  
Lys Ser Leu Leu Val Thr Gln Leu Arg Cys Gln Thr Ser Ser Glu Thr  
35 40 45  
Cys Thr Val Ala Ala Tyr  
50



<210> 973  
<211> 102  
<212> PRT  
<213> Homo sapiens

<400> 973  
Val Val Leu Phe Glu His Lys Leu His Phe Tyr Phe Leu Met Gln Arg  
1 5 10 15  
Met Asn Lys Leu Asn Thr Cys Phe Glu Asp Arg Ser Arg Cys Ser Val  
20 25 30  
Trp His His Val Ile Ile Cys Leu Phe Tyr Asn Ile His Val Ser Leu  
35 40 45  
Arg Asn His Gly Arg Asp Val Arg Ala Glu Tyr Thr Gln Gln Met Leu  
50 55 60  
Lys Glu Lys Glu Gly Ser Val Leu Gln Lys Lys Lys Lys Arg Thr Asn  
65 70 75 80  
Arg Ile Leu Thr Leu Leu Thr Phe Pro Asn Phe Pro Met Leu Leu Val  
85 90 95  
Asn Ile Ile Ile Val Ser  
100

<210> 974  
<211> 365  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (297)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (316)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (321)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (335)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (347)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (363)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 974

Gly Met Lys Thr Asn Gly Gly Arg Cys Arg Val Arg Ala Leu Cys Trp  
1 5 10 15

Ser Arg Arg Glu Trp Arg Gly Ala Gly Met Ala Gln Lys Lys Tyr Leu  
20 25 30

Gln Ala Lys Leu Thr Gln Phe Leu Arg Glu Asp Arg Ile Gln Leu Trp  
35 40 45

Lys Pro Pro Tyr Thr Asp Glu Asn Lys Lys Val Gly Leu Ala Leu Lys  
50 55 60

Asp Leu Ala Lys Gln Tyr Ser Asp Arg Leu Glu Cys Cys Glu Asn Glu  
65 70 75 80

Val Glu Lys Val Ile Glu Glu Ile Arg Cys Lys Ala Ile Glu Arg Gly  
85 90 95

Thr Gly Asn Asp Asn Tyr Arg Thr Thr Gly Ile Ala Thr Ile Glu Val  
100 105 110

Phe Leu Pro Pro Arg Leu Lys Lys Asp Arg Lys Asn Leu Leu Glu Thr  
115 120 125

Arg Leu His Ile Thr Gly Arg Glu Leu Arg Ser Lys Ile Ala Glu Thr  
130 135 140

Phe Gly Leu Gln Glu Asn Tyr Ile Lys Ile Val Ile Asn Lys Lys Gln  
145 150 155 160

Leu Gln Leu Gly Lys Thr Leu Glu Glu Gln Gly Val Ala His Asn Val  
165 170 175

Lys Ala Met Val Leu Glu Leu Lys Gln Ser Glu Glu Asp Ala Arg Lys  
180 185 190

Asn Phe Gln Leu Glu Glu Glu Glu Gln Asn Glu Ala Lys Leu Lys Glu  
 195 200 205

Lys Gln Ile Gln Arg Thr Lys Arg Gly Leu Glu Ile Leu Ala Lys Arg  
 210 215 220

Ala Ala Glu Thr Val Val Asp Pro Glu Met Thr Pro Tyr Leu Asp Ile  
 225 230 235 240

Ala Asn Gln Thr Gly Arg Ser Ile Arg Ile Pro Pro Ser Glu Arg Lys  
 245 250 255

Ala Leu Met Leu Ala Met Gly Tyr His Glu Lys Gly Arg Ala Phe Leu  
 260 265 270

Lys Arg Lys Glu Tyr Gly Ile Ala Leu Pro Cys Leu Leu Asp Ala Asp  
 275 280 285

Lys Tyr Phe Cys Glu Cys Cys Arg Xaa Leu Leu Asp Thr Val Asp Asn  
 290 295 300

Tyr Ala Val Leu Gln Leu Asp Ile Val Trp Cys Xaa Phe Arg Leu Glu  
 305 310 315 320

Xaa Leu Glu Cys Leu Asp Asp Ala Glu Lys Lys Leu Asn Leu Xaa Gln  
 325 330 335

Lys Cys Phe Lys Asn Cys Tyr Gly Glu Asn Xaa Gln Arg Leu Val His  
 340 345 350

Ile Lys Val Cys Ser Trp Glu Phe Ile Leu Xaa Ala Arg  
 355 360 365

<210> 975

<211> 146

<212> PRT

<213> Homo sapiens

<400> 975

Arg Gly Cys Lys Arg Glu Gly Leu Ala Met Ser Ser Leu Ile Arg Arg  
 1 5 10 15

Val Ile Ser Thr Ala Lys Ala Pro Gly Ala Ile Gly Pro Tyr Ser Gln  
 20 25 30

Ala Val Leu Val Asp Arg Thr Ile Tyr Ile Ser Gly Gln Ile Gly Met  
 35 40 45

Asp Pro Ser Ser Gly Gln Leu Val Ser Gly Gly Val Ala Glu Glu Ala  
50 55 60

Lys Gln Ala Leu Lys Asn Met Gly Glu Ile Leu Lys Ala Ala Gly Cys  
65 70 75 80

Asp Phe Thr Asn Val Val Lys Thr Thr Val Leu Leu Ala Asp Ile Asn  
85 90 95

Asp Phe Asn Thr Val Asn Glu Ile Tyr Lys Gln Tyr Phe Lys Ser Asn  
100 105 110

Phe Pro Ala Arg Ala Ala Tyr Gln Val Ala Ala Leu Pro Lys Gly Ser  
115 120 125

Arg Ile Glu Ile Glu Ala Val Ala Ile Gln Gly Pro Leu Thr Thr Ala  
130 135 140

Ser Leu  
145

<210> 976

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

Ser Ser Glu Leu Leu Leu His Ser Phe Leu Gly Ser Val Ser Ser Gln  
1 5 10 15

Asn His Arg Tyr Pro Xaa Xaa Ser Gln Thr Thr Ala Leu Gly Glu Gly  
20 25 30

Thr Ile Arg Phe Thr Xaa Gly Phe His Thr Leu Met Leu Leu Ala Phe  
35 40 45

Asn Leu Thr Thr Leu Asp Cys Gln Val Phe Thr Asp Xaa Trp Thr Trp  
50 55 60

Ile Gln Asp Trp Glu Cys Xaa Gly Met Val Trp Gln Gln Cys Leu Leu  
65 70 75 80

<210> 977

<211> 59

<212> PRT

<213> Homo sapiens

<400> 977

Thr Asp Asp Glu Phe Ser Gln Met Thr Leu Arg Asn Cys Phe Thr Lys  
1 5 10 15

Asn Lys Val Ile Tyr Leu Leu Trp Glu Glu Leu Pro Ser Phe Cys Phe  
20 25 30

Ser Ser Leu Pro Pro Phe Pro Cys Gly Cys Arg Ala Arg Ser Val Arg  
35 40 45

Ser Trp Phe Cys Pro Ala Met Ile Arg Glu Ser  
50 55

<210> 978

<211> 203

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Leu Trp Glu Leu Lys Lys Leu Ser Val His Phe His Pro Ser Val Ala  
1 5 10 15

Leu Phe Ala Lys Thr Ile Leu Gln Gly Asn Tyr Ile Gln Tyr Ser Gly  
20 25 30

Asp Pro Leu Gln Asp Phe Thr Leu Met Arg Phe Leu Asp Arg Phe Val  
35 40 45

Tyr Arg Asn Pro Lys Pro His Lys Gly Lys Glu Asn Thr Asp Ser Val  
50 55 60

Val Met Gln Pro Lys Arg Lys His Phe Ile Lys Asp Ile Arg His Leu  
65 70 75 80

Pro Val Asn Ser Lys Glu Phe Leu Ala Lys Glu Glu Ser Gln Ile Pro  
85 90 95

Val Asp Glu Val Phe Phe His Arg Tyr Tyr Lys Lys Val Ala Val Lys  
100 105 110

Glu Lys Gln Lys Arg Asp Ala Asp Glu Glu Ser Ile Glu Asp Val Asp  
115 120 125

Asp Glu Glu Phe Glu Glu Leu Ile Asp Thr Phe Glu Asp Asp Asn Cys  
130 135 140

Phe Ser Ser Gly Lys Asp Asp Met Asp Phe Ala Gly Asn Val Lys Lys  
145 150 155 160

Arg Thr Lys Gly Ala Lys Asp Asn Thr Leu Asp Glu Asp Ser Glu Gly  
165 170 175

Ser Asp Asp Glu Leu Gly Asn Leu Asp Asp Asp Xaa Ser Phe Phe Arg  
180 185 190

Glu Val Trp Met Met Glu Glu Phe Ala Gly Ser  
195 200

<210> 979

<211> 141

<212> PRT

<213> Homo sapiens

<400> 979

Ala Ala Gly Phe Gly Asp Phe Cys Leu Ile Ala Met Ser Gly Arg Gly

1	5	10	15
Lys Gln Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg	20	25	30
Ala Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys	35	40	45
Gly Asn Tyr Ala Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Leu Ala	50	55	60
Ala Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn	65	70	75
Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln	85	90	95
Leu Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Arg Val	100	105	110
Thr Ile Ala Gln Gly Gly Val Leu Pro Asn Ile Gln Ala Val Leu Leu	115	120	125
Pro Lys Lys Thr Glu Ser His His Lys Ala Lys Gly Lys	130	135	140

&lt;210&gt; 980

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 980

Gly Glu Leu Ser Phe Phe Gly Arg His Pro Asp Val Pro Arg Glu Ala	1	5	10	15
Ala Gly Ala His Gly Asp Arg His Ala Ser Pro Trp Ala Phe Phe Leu	20	25	30	
Glu Arg Xaa Lys Ala Pro Arg Leu Thr Thr Arg Ser His Arg Leu Leu	35	40	45	
Ser Asp Val Phe Ala Ala Ser Trp Thr Pro His Arg Met Leu Thr Thr	50	55	60	

Lys Thr Leu Gln Pro Trp Val Ala Arg Leu Asp Glu Met Glu Arg Gly  
 65 70 75 80

Leu Phe Gln Thr Gly Gln Lys Gly Leu Asn Asp Phe Gln Cys Trp Glu  
 85 90 95

Lys Gly Gln Ala Ser Gln Ile Thr Ala Ser Asn Leu Val Gln Asn  
 100 105 110

<210> 981

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 981

Trp Arg Met Gly Phe Ser Arg Val Leu Cys Phe Thr Asn Ser Arg Glu  
 1 5 10 15

Asn Ser His Arg Leu Phe Leu Leu Val Gln Ala Phe Gly Gly Val Asp  
 20 25 30

Val Ala Glu Phe Ser Ser Arg Tyr Gly Pro Gly Gln Arg Arg Met Ile  
 35 40 45

Leu Lys Gln Phe Glu Gln Gly Lys Ile Gln Leu Leu Ile Ser Thr Asp  
 50 55 60

Ala Thr Ala Arg Gly Xaa Asp Val Gln Gly Val Glu Leu Val Val Asn  
 65 70 75 80

Tyr Asp Ala Pro Gln Tyr Leu Arg Thr Tyr Val His Arg Val Gly Arg  
 85 90 95

Thr Ala Arg Ala Gly Lys Thr Gly Gln Ala Phe Thr Leu Leu Leu Lys  
 100 105 110

Val Gln Glu Arg Arg Phe Leu Arg Met Leu Thr Glu Ala Gly Ala Pro  
 115 120 125



Glu Leu Gln Arg His Glu Leu Ser Ser Lys Leu Leu Gln Pro Leu Val  
130 135 140

Pro Arg Tyr Glu Glu Ala Leu Ser Gln Leu Glu Glu Ser Val Lys Glu  
145 150 155 160

Glu Xaa Lys Gln Arg Ala Ala  
165

<210> 982  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 982  
Ala Asn Glu Pro Gln Phe Leu Ala Val Tyr Lys Lys Ser Leu Asn Ala  
1 5 10 15

Asn Glu Glu Phe Lys Gly Leu Phe Lys Glu Met Lys Gly Phe Pro Asn  
20 25 30

Arg Met Ile Tyr Ser Glu Glu Thr Asn Asn Gly Ile Ser Glu Thr His  
35 40 45

Asn Leu Lys Pro Asn Leu Glu Asn Met Leu Cys Thr Lys Thr Thr Ala  
50 55 60

Ser Ala Ser Ser Leu Ile Leu Thr Phe Phe Asn Arg Tyr Leu Leu Asn  
65 70 75 80

Cys Pro Val Lys Arg Cys His Asn Ala Gln Tyr Cys Lys Gln Gln Val  
85 90 95

Cys Ile His Glu Ala Phe Ile His Ser Gly Val Tyr  
100 105

<210> 983  
<211> 150  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 983

Phe Ser Leu Ser Leu Ser Met Thr Pro Gln Leu Leu Leu Ala Leu Val  
 1 5 10 15  
 Leu Trp Ala Ser Cys Pro Pro Cys Ser Gly Arg Lys Gly Pro Pro Ala  
 20 25 30  
 Ala Leu Thr Leu Pro Arg Val Gln Cys Arg Ala Ser Arg Tyr Pro Ile  
 35 40 45  
 Ala Val Asp Cys Ser Trp Thr Leu Pro Pro Ala Pro Asn Ser Thr Ser  
 50 55 60  
 Pro Val Ser Phe Ile Ala Thr Tyr Arg Leu Gly Met Ala Ala Arg Gly  
 65 70 75 80  
 His Ser Trp Pro Cys Leu Gln Gln Thr Pro Thr Ser Thr Ser Cys Thr  
 85 90 95  
 Ile Thr Asp Val Gln Leu Phe Ser Met Ala Pro Tyr Val Leu Asn Val  
 100 105 110  
 Thr Ala Val His Pro Trp Gly Ser Ser Ser Ser Phe Val Pro Phe Ile  
 115 120 125  
 Thr Glu His Ile Ile Lys Pro Asp Pro Pro Glu Gly Val Arg Leu Ser  
 130 135 140  
 Pro Leu Ala Glu Arg Xaa  
 145 150

<210> 984  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 984  
 Arg Leu Cys Trp Val Lys Thr Leu Gln His Leu Leu Leu Arg Ser Thr  
 1 5 10 15  
 His Lys Asp Gln Val Gln His Arg Gly Leu Gly Thr Ser Leu Ala Ser  
 20 25 30  
 Gly Pro His Leu Thr Val Arg Gln Gln Leu Pro Ser Pro Ala Met Cys  
 35 40 45  
 Leu Leu Ser Gly Ser Ser Cys Leu Lys Leu Thr Ser Thr Phe Phe Pro  
 50 55 60  
 Asp Gly Gln Val Ala Glu Gly Pro Ala Ile Ser Val Ala Cys Cys His

65                                      70                                      75                                      80  
 Pro Val Pro Pro Leu Ala Ser Leu Ser Phe Ala Gln Lys Thr Asn Asn  
    85                                      90                                      95  
 His Thr Tyr Pro Asn Trp Asp Thr Thr Leu Gln Asn Ala Asp Asp Pro  
    100                                      105                                      110  
 Phe Trp Arg Lys Leu Ser Leu Glu Leu Ser Glu Leu Pro Gly Lys Gln  
    115                                      120                                      125  
 Gly Ile Trp Pro Thr Ser Leu Thr Thr Ala Ala Pro Thr Ser Pro Arg  
    130                                      135                                      140  
 Thr Gly Ala Ser Ala Leu Thr Glu Val Gly Arg Pro Lys Thr  
 145                                      150                                      155

<210> 985  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 985  
 Arg Trp Gly Cys Pro Gly Trp Ser Gln Thr Pro Glu Leu Lys Gln Cys  
   1                                      5                                      10                                      15  
 Ala Arg Leu Gly Phe Pro Lys Cys Trp Asp Tyr Arg Arg Lys Pro Leu  
    20                                      25                                      30  
 His Ala Ala Tyr Pro Leu Pro Phe  
    35                                      40

<210> 986  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 986  
 Val Phe Gly Ser Phe Ser Cys Ile His Ser Pro Ser Cys His Leu Val  
   1                                      5                                      10                                      15  
 Lys Lys Val Pro Trp Phe Pro Phe Thr Phe Asn His Asp Cys Lys Phe  
    20                                      25                                      30  
 Pro Glu Ala Pro Pro Ala Met Gly Asp Cys Glu Ser Ile Lys Pro Leu  
    35                                      40                                      45

Ser Phe Ile Asn Tyr Pro Val Ser Gly Ser Phe Leu Ile Ala Val  
50 55 60

<210> 987  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 987  
His His Arg Ile Asn Cys Val His Leu Tyr His Cys Phe Thr Ser Leu  
1 5 10 15  
Trp Trp Ile Tyr Met Ala Lys Leu Cys Glu Glu Ile Gly Lys Lys Lys  
20 25 30  
Leu Pro Leu Thr Lys Asp Met Arg Glu Gln Gly Val Lys Ser Asn Pro  
35 40 45  
Cys Asp Ser Ser Leu Ser His Thr Asp Arg Trp Tyr Leu Pro Val Ser  
50 55 60  
Ser Thr Leu Phe Ser Leu Phe Lys Ile Leu Phe His Ala Ser Arg Phe  
65 70 75 80  
Ile Phe Val Leu Ser Thr Ser Leu Phe Leu  
85 90

<210> 988  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 988  
Ala Gln Glu Glu Lys Lys Pro Tyr Leu Cys Ser Arg Phe Cys Lys Gly  
1 5 10 15  
Glu Ile Ser Thr Glu Arg Asn His Cys Tyr Thr Ser Ala Lys Thr Gln  
20 25 30  
Gly Leu Gly Asp Leu Phe Leu Phe Ile Cys Phe Gly Tyr Leu Ala Ser  
35 40 45  
Phe Ser  
50

<210> 989

<211> 92

<212> PRT

<213> Homo sapiens

<400> 989

Arg Met Lys Arg Ser Arg Arg Trp Ser Arg Tyr Lys Ala Leu Asn Ala  
1 5 10 15

Gly Arg Thr Ser Lys Arg Ile His Lys Gly Leu Val Val Arg Lys Gly  
20 25 30

Trp Leu Gly Lys Leu Pro Ser Leu Pro Leu Arg Trp Arg Ala Arg Gly  
35 40 45

Val Met Thr Leu Met Phe Ile Leu Leu Ala Ala Met Leu Trp Phe Val  
50 55 60

Ala Ala Pro Val Val Thr Tyr Ile Leu Cys Ala Leu Val Val Leu Leu  
65 70 75 80

Ala Ala Pro Val Leu Asn Gly Arg Leu Tyr Ala Arg  
85 90

<210> 990

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 990

Ser Gly Leu Ile Pro Phe Pro Phe Gln Arg Ile Ala Lys Lys Lys Leu  
1 5 10 15

Thr Val Glu Ala Gly Cys Ser Glu Val Gly Cys Gly Val Gly Gly Thr  
20 25 30

Xaa Gly Xaa Ala Leu Trp Ala Gly Ala Gly Gly Phe Glu Gly Leu Ser  
35 40 45

Ser Thr Arg Ala Gln Arg Ser Cys Gln Trp Pro Val Ala Leu Pro Pro  
 50 55 60

Phe Pro Glu Arg Gly Ser Arg Gly His Pro Gly Arg Leu Gly Pro Gly  
 65 70 75 80

Pro Pro Ser Ala Leu Ala Ser  
 85

<210> 991  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 991  
 Phe Ala Thr Asp Arg Phe Phe Lys Cys Trp His Asn Ala Gln Ser Ser  
 1 5 10 15

Met Arg Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile  
 20 25 30

Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys Xaa Ala Val  
 35 40 45

Thr Val Ser Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile  
 50 55 60

Ser Val Asp Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn  
 65 70 75 80

Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser  
 85 90 95

Arg Ala Asn Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Gln Gln Leu  
 100 105 110

Thr Lys Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala Ala Lys Ile  
 115 120 125

Ala Lys Asp Lys Thr Gln Glu Lys Ile Glu Thr Ser Ser Asn His Ser  
 130 135 140

Gln Ala Ser Ser Val Asn Xaa Thr Asp Asp Glu Lys Ala Ser His Ala  
 145 150 155 160

Gly Pro Ala Asn Thr His Leu Lys Ser Glu Asn Asp Lys Leu Lys Ile  
 165 170 175

Ala Leu Thr Gln Ser Ala Pro Thr  
 180

<210> 992

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 992

Pro Cys His Leu Gln His Glu Glu Ser Leu Ser Gly Val Lys Val Asn  
 1 5 10 15

Glu Thr Asn Arg Asp Xaa Arg Pro Gly Glu Ile Leu Val Thr Leu Leu  
 20 25 30

Glu Ser Cys Gln Ser Tyr Thr Gly Val Leu Leu Ile Gln Asn Asn Ser  
 35 40 45

Asn Asn Pro Ser Val Ser Tyr Val Tyr Ala Asn Phe Asn Lys Lys Lys  
 50 55 60

Leu Asp  
 65

<210> 993

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 993

Ser	Gly	Pro	Gly	Val	Gln	Trp	Val	Gln	Pro	Ala	Cys	Xaa	Leu	Arg	Pro
1				5				10						15	

Asp	Arg	Gly	Ala	Pro	Thr	Asp	Gly	Xaa	Gly	Gly	Ala	Leu	Gln	Ala	Glu
		20						25					30		

Thr	Pro	Ser	Ser	Ala	Glu	Ser	Gln	Glu	Phe	Trp	Glu	Val	Lys	Arg	Lys
		35					40					45			

Glu	Lys	Leu	Ile	Thr	Asn	Gly	Thr	Ile	Phe	Cys	Phe	Glu	Met	Glu	Pro
	50					55					60				

Ala	Val	Ser	Glu	Pro	Met	Arg	Asp	Gln	Val	Ala	Arg	Thr	His	Leu	Thr
65					70					75				80	

Glu	Asp	Thr	Pro	Lys	Val	Asn	Ala	Asp	Ile	Glu	Lys	Val	Asn	Xaa	Asn
				85					90					95	

Gln	Ala	Xaa	Arg	Cys	Thr	Val	Ile	Gly	Gly	Ser	Gly	Phe	Leu	Gly	Gln
		100						105					110		

His	Met	Val	Glu	Gln	Leu	Leu	Ala	Arg	Gly	Tyr	Ala	Val	Asn	Val	Phe
	115						120					125			

Asp	Ile	Gln	Gln	Gly	Phe	Asp	Asn	Pro	Gln	Val	Arg	Phe	Phe	Leu	Gly
	130					135					140				

Asp	Leu	Cys	Ser	Arg	Gln	Asp	Leu	Tyr	Pro	Ala	Leu	Lys	Gly	Val	Asn
145					150					155					160

Thr	Val	Phe	His	Cys	Ala	Ser	Pro	Pro	Pro	Ser	Ser	Asn	Asn	Lys	Glu
				165					170					175	

Leu	Phe	Tyr	Arg	Val	Asn	Tyr	Ile	Gly	Thr	Lys	Asn	Val	Ile	Glu	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



180	185	190
Cys Lys Glu Ala Gly Val Gln Lys Leu Ile Leu Thr Ser Ser Ala Ser 195	200	205
Val Ile Phe Glu Gly Val Asp Ile Lys Asn Gly Thr Glu Asp Leu Pro 210	215	220
Tyr Ala Met Lys Pro Ile Asp Tyr Tyr Thr Glu Thr Lys Ile Leu Gln 225	230	235 240
Glu Arg Ala Val Leu Gly Ala Asn Asp Pro Glu Lys Asn Phe Leu Thr 245	250	255
Thr Ala Ile Arg Pro His Gly Ile Phe Gly Pro Arg Asp Pro Gln Leu 260	265	270
Val Pro Ile Leu Ile Glu Ala Ala Arg Asn Gly Lys Met Lys Phe Val 275	280	285
Ile Gly Asn Gly Lys Asn Leu Val Asp Phe Thr Phe Val Glu Asn Val 290	295	300
Val His Gly His Ile Leu Ala Ala Glu Gln Leu Ser Arg Asp Ser Thr 305	310	315 320
Leu Gly Gly Lys Ala Phe His Ile Thr Asn Asp Glu Pro Ile Pro Phe 325	330	335
Trp Thr Phe Leu Ser Arg Ile Leu Thr Gly Leu Asn Tyr Glu Ala Pro 340	345	350
Lys Tyr His Ile Pro Tyr Trp Val Ala Tyr Tyr Leu Ala Leu Leu Leu 355	360	365
Ser Leu Leu Val Met Val Ile Ser Pro Val Ile Gln Leu Gln Pro Thr 370	375	380
Phe Thr Pro Met Arg Val Ala Leu Ala Gly Thr Phe His Tyr Tyr Ser 385	390	395 400
Cys Glu Arg Ala Lys Lys Ala Met Gly Tyr Gln Pro Leu Val Thr Met 405	410	415
Asp Asp Ala Met Glu Arg Thr Val Gln Ser Phe Arg His Leu Arg Arg 420	425	430
Val Lys		

<210> 994  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 994  
Met Leu His Gly Ile Thr Ser Phe Ile Leu Tyr Lys Ser Ile Met Cys  
1 5 10 15

Xaa Glu Leu Lys Thr Ser Leu Gly Asn Ile Asn Ser Ser  
20 25

<210> 995  
<211> 175  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 995  
Arg Gly Leu Val Arg Gly Ala Met Val Gly Gly Met Gln Glu Arg Glu  
1 5 10 15

Pro Ala Leu Thr Val Lys Leu Arg Leu Phe Xaa Pro Gln Pro Ser Thr  
20 25 30

Pro Ala Gln Thr Gly Ser Trp Ala Leu Phe Cys Leu Ser Gln Pro His  
35 40 45

Ser Lys Pro Xaa Pro Pro Ala Pro Pro Tyr Cys Asn Ser Pro His Ser  
50 55 60

His Thr Arg Ser Pro Leu Pro Pro Thr Tyr Xaa Arg Xaa Phe Ser Pro  
65 70 75 80

Leu Pro Ser Gln Leu Pro Ala Pro Ser Cys Phe Thr Lys Gly Glu Val  
85 90 95

Pro Gly His Leu Arg Val Ser Leu Cys Gly Ala Gln Asn Leu Gln Gly  
100 105 110

Pro Leu Ser Met Pro Leu Val Pro Trp Thr Val Ser Leu Val His Leu  
115 120 125

Leu Ser Pro Ser Ile Leu Ser Gln Ser Thr Asp Phe Ser His Ser Ala  
130 135 140

Val Ser Val Gln Pro Tyr Pro Arg Asp Leu Asp Ala Trp Pro Pro Asn  
145 150 155 160

Leu Ala Leu Gly Tyr Pro Asp Ala Asn Gln Thr Pro Pro Ser Ser  
165 170 175

<210> 996

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 996

Thr Leu Ser His Gln Val Thr Gln Gln Met Asn Met Leu Ile Gly Val  
1 5 10 15

Glu Leu Gln Arg Leu Leu Val Cys Gln Val Phe Leu Phe Ile Gln Leu  
20 25 30

Asp Thr Met His Ala Gln Lys Leu Leu Xaa Lys Met Gly Gly Ser Ala  
35 40 45

Pro Pro Asp Ser Ser Trp Arg Gly Ser Leu Lys Val Pro Tyr Asn Val  
50 55 60

Gly Pro Gly Phe Thr Gly Asn Phe Ser Thr Gln Lys Val Lys Met His  
65 70 75 80

Ile His Ser Thr Asn Glu Val Thr Arg Ile Tyr Asn Val Ile Gly Thr  
85 90 95

Leu Arg Gly Ala Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His  
100 105 110

Arg Asp Ser Trp Val Xaa Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala  
115 120 125

Val Val His Glu Ile Val Arg Ser Phe Gly Thr Leu Lys Lys Glu Gly  
130 135 140

Trp Arg Pro Arg Arg Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu  
145                   150                   155                   160

Phe Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Xaa Xaa Ser Arg Leu  
165 170 175

Leu Gln Glu Arg Gly Xaa Gly Phe Ile Leu Asn Ala Asp Ser Ser Ile  
180 185 190

Gly Arg Lys Leu His Ser Glu Glu Leu Asp Cys Thr Pro Leu Asp Val  
195 200 205

Gln Leu Gly Thr Gln Pro Tyr Gln Arg Ala  
210 215

<210> 997  
<211> 119  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 997  
Gly Arg Arg Gln Pro Thr Pro Xaa Thr Ser Pro Glu Pro Pro Arg Ser  
1 5 10 15  
Ser Pro Arg Gln Thr Pro Ala Pro Gly Pro Ala Arg Glu Lys Ser Ala  
20 25 30  
Gly Lys Arg Gly Pro Asp Arg Gly Ser Pro Glu Tyr Arg Gln Arg Arg  
35 40 45  
Glu Arg Asn Asn Ile Ala Val Arg Lys Ser Arg Asp Lys Ala Lys Arg  
50 55 60  
Arg Asn Gln Glu Met Gln Gln Lys Leu Val Glu Leu Ser Ala Glu Asn  
65 70 75 80  
Glu Lys Leu His Gln Arg Val Glu Gln Leu Thr Arg Asp Leu Ala Gly  
85 90 95  
Leu Arg Gln Phe Phe Lys Gln Leu Pro Ser Pro Pro Phe Leu Pro Ala  
100 105 110  
Ala Gly Thr Ala Asp Cys Arg  
115

<210> 998  
<211> 101  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 998

Leu Val Asn Gly Ala Arg Lys Val Thr Gly Gln Arg Thr Gln Met Tyr  
1 5 10 15

Arg Xaa Asp Met Xaa Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile  
20 25 30

Phe Pro Pro Ile Lys Thr Asp Val Ile Thr Met Asp Pro Lys Asp Asn  
35 40 45

Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr  
50 55 60

Ser Ala Tyr Tyr Met Tyr Leu Leu Leu Leu Lys Ser Val Val Tyr  
65 70 75 80

Phe Ala Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys  
85 90 95

Asn Gly Glu Lys Ser  
100

<210> 999

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999

Gly Thr Ser Ala Gly Val Asn Pro Tyr Lys Cys Ser Gln Cys Glu Lys  
1 5 10 15

Ser Phe Ser Gly Lys Leu Arg Leu Leu Val His Gln Arg Met His Thr  
20 25 30

Arg Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Ala Phe Ile Arg  
35 40 45

Asn Ser Gln Leu Ile Val His Gln Arg Thr His Ser Gly Glu Lys Pro  
50 55 60

Tyr Gly Xaa Gln  
65

<210> 1000

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1000

Arg Pro Cys Glu Arg Thr Val Arg Pro Arg His Ser Gly His Ser Gly  
1 5 10 15

Pro Asn Xaa Cys Cys Ser Cys Arg Cys Ser Ser Cys Thr Gly Glu Ala  
20 25 30

Ala Ile Ala Gly Arg Leu Arg Thr Ala Ala Ala Gly Ala Arg Thr Ala  
35 40 45

Gly Ala Ala Leu Arg His Leu Gly Ala Gly Gln Arg Glu Leu Gly Pro  
50 55 60

Arg Leu Glu Glu Thr Lys Trp Glu Val Cys Gln Lys Ser Gly Glu Ile  
65 70 75 80

Ser Leu Leu Lys Gln Gln Leu Lys Glu Ser Gln Ala Glu Leu Val Gln  
85 90 95

Lys Gly Ser Glu Leu Val Ala Leu Arg Val Ala Leu Arg Glu Ala Arg  
100 105 110

Ala Thr Leu Arg Val Ser Glu Gly Arg Ala Arg Gly Leu Gln Glu Ala  
115 120 125

Ala Arg Ala Arg Glu Leu Glu Leu Glu Ala Cys Ser Gln Glu Leu Gln  
130 135 140

Arg His Arg Gln Glu Ala Glu Gln Leu Arg Glu Lys Ala Gly Gln Leu  
145 150 155 160

Asp Ala Glu Ala Ala Gly Leu Arg Glu Pro Pro Val Pro Pro Ala Thr  
165 170 175

Ala Asp Pro Phe Leu Leu Ala Glu Ser Asp Glu Ala Lys Val Gln Arg  
180 185 190

Ala Ala Ala Gly Val Gly Gly Ser Leu Arg Ala Gln Val Glu Arg Leu  
195 200 205

Arg Val Glu Leu Gln Arg Glu Arg Arg Arg Gly Glu Glu Gln Arg Asp  
210 215 220

Ser Phe Glu Gly Glu Arg Leu Ala Trp Gln Ala Glu Lys Glu Gln Val  
225 230 235 240

Ile Arg Tyr Gln Lys Gln Leu Gln His Asn Tyr Ile Gln Met Tyr Arg  
245 250 255

Arg Asn Arg Gln Leu Glu Gln Glu Leu Gln Gln Leu Ser Leu Glu Leu  
260 265 270

Glu Ala Arg Glu Leu Ala Asp Leu Gly Leu Ala Glu Gln Pro Pro Ala  
275 280 285

Ser Ala Trp Arg Arg Ser Leu Leu Leu Arg Ser Arg Ala Leu Ser Asn  
290 295 300

Gln Leu Cys Arg Glu Leu Cys Gln Arg Gly Ser Ser Cys Arg Ser Thr  
305 310 315 320

<210> 1001  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 1001  
Gly Leu Cys Phe Leu Pro Trp Val Gly Phe Ser Ser Met His Val Gly  
1 5 10 15  
Cys Phe Ser Leu Asn Leu Ile Val Cys Leu Val Cys Phe Pro Pro Phe  
20 25 30  
Pro Phe Leu Phe Lys Leu Ile His Arg Thr Gln Lys Phe Thr Arg Tyr  
35 40 45  
Glu His Leu Lys Lys Trp Asn Arg Glu Asn Gly Thr Ser His Val Ile  
50 55 60  
Lys Ile Asn Ile Val Leu  
65 70



<210> 1002  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1002  
Ile Phe Tyr Thr Ile Leu Gln Trp Asp Arg Asn Cys Leu Thr Pro Ala  
1 5 10 15  
Gly Val Thr Pro His Glu Pro Gln Gly Ser Ser Val Pro Lys Xaa Lys  
20 25 30  
Lys Gly Asn Arg Trp Pro Pro Pro Leu Pro His Ser Pro Gly Thr Gln  
35 40 45  
Asp Cys Ser Leu Lys Val Phe Glu Pro Pro Ser Phe Pro Phe Leu Leu  
50 55 60  
Gly Gly Gln Gly Xaa Leu Asn Ser Arg Ala Leu Pro Val Leu Pro  
65 70 75

<210> 1003  
<211> 158  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1003  
Ile Arg His Glu Gly Thr Leu Asn Gln Pro Leu Thr Lys Leu Asp Arg  
1 5 10 15  
Ser Ser Glu Glu Pro Leu Gly Val Leu Val Asn Pro Asn Met Tyr Gln  
20 25 30

Ser Pro Pro Gln Trp Val Asp His Thr Gly Ala Ala Ser Gln Lys Lys  
35 40 45

Ala Phe Arg Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser Phe Gln His  
50 55 60

Gln Leu Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe Asp Gly Gly  
65 70 75 80

Trp Cys Leu Ser Val His Gln Pro Trp Xaa Ser Leu Leu Val Arg Gly  
85 90 95

Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His Arg Gly Arg  
100 105 110

Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln Glu Val Ser  
115 120 125

Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp Val Glu Phe  
130 135 140

Pro Asn Asp Tyr Pro Ser Val Val Phe Trp Ala Val Trp Thr  
145 150 155

<210> 1004

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1004

Ala Gly Thr Leu Thr Pro Ala Tyr Cys Leu Lys Thr Ser Pro Thr Gly  
1 5 10 15  
Xaa Phe Met Val Ser Tyr Pro Leu Pro His Ile Phe Leu Ala Thr Arg  
20 25 30  
Gln Glu Thr Tyr Leu Trp His Leu Gln Ile Ser Xaa Ile Xaa Phe Trp  
35 40 45  
Xaa Phe Pro Cys Leu Ala Ile Cys Phe Ile Glu Trp Val Ser Glu Thr  
50 55 60

&lt;210&gt; 1005

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1005

Ser Ser Lys Phe Arg Ala Ile Asn Pro Ile Ser Val Ile Lys Ser Ser  
1 5 10 15  
Thr Asp Asn Asn Glu Gln Leu Leu Lys Ser Asn Ile Leu Ser Leu Phe  
20 25 30  
Thr Asn Val Ser Leu Ser Ile Gly Thr Phe Leu Xaa Tyr Leu Phe Ala  
35 40 45  
Cys His Tyr Asp Gln Lys Lys Gln Lys Ala Thr Gln Lys Gly Gln Pro  
50 55 60  
His Ser Lys  
65

&lt;210&gt; 1006

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1006

Leu	Asp	Lys	Lys	Arg	Lys	Lys	Asp	Met	Leu	Asn	Ser	Lys	Thr	Lys	Thr
1				5					10					15	

Gln	Tyr	Phe	His	Gln	Glu	Lys	Trp	Ile	Tyr	Val	His	Lys	Gly	Ser	Thr
			20					25					30		

Xaa	Glu	Arg	His	Gly	Tyr	Cys	Thr	Leu	Gly	Xaa	Ala	Phe	Asn	Arg	Leu
		35					40					45			

Asp	Phe	Ser	Thr	Ala	Ile	Leu	Asp	Ser	Arg	Arg	Phe	Asn	Tyr	Val	Val
50						55				60					

Arg	Leu	Leu	Glu	Leu	Ile	Ala	Lys	Ser	Gln	Leu	Thr	Ser	Leu	Ser	Gly
65					70					75					80

Ile	Ala	Gln	Lys	Asn	Phe	Met	Asn	Ile	Leu	Glu	Lys	Val	Val	Leu	Lys
			85						90					95	

Val	Leu	Glu	Asp	Gln	Gln	Asn	Ile	Arg	Leu	Ile	Arg	Glu	Leu	Leu	Gln
		100					105					110			

Thr	Leu	Tyr	Thr	Ser	Leu	Cys	Thr	Leu	Val	Gln	Arg	Val	Gly	Lys	Ser
	115						120					125			

Val	Leu	Val	Gly	Asn	Ile	Asn	Met	Trp	Val	Tyr	Arg	Met	Glu	Thr	Ile
130					135						140				

Leu	His	Trp	Gln	Gln	Gln	Leu	Asn	Asn	Ile	Gln	Ile	Thr	Arg	Pro	Ala
145					150					155					160

Phe	Lys	Gly	Leu	Thr	Phe	Thr	Asp	Leu	Pro	Leu	Cys	Leu	Gln	Leu	Asn
			165					170					175		

Ile	Met	Gln	Arg	Leu	Ser	Asp	Gly	Arg	Asp	Leu	Val	Ser	Leu	Gly	Gln
		180					185						190		

Leu	Pro	Pro	Thr	Cys	Thr	Cys	Ser	Ala	Lys	Thr	Gly	Cys	Cys	Gly	Arg
	195						200					205			

Asn Ser Ala Ser Thr Thr Ser Pro Ser Gly Arg Ser Ala Asn Asp  
210 215 220

<210> 1007

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1007

Phe Gly Thr Ser Phe Cys Trp Cys Tyr Phe Gln Phe Tyr Phe Gln Cys  
1 5 10 15

His Asn Arg Val Ile Phe Lys Gln Leu Leu Gln Ala Lys Ala Leu Gln  
20 25 30

Phe Leu Gln Ile Asp Ser Cys Arg Leu Gly Ser Val Asn Glu Asn Leu  
35 40 45

Ser Val Leu Leu Met Ala Lys Lys Phe Glu Ile Pro Val Cys Pro His  
50 55 60

Ala Gly Gly Val Gly Leu Cys Glu Leu Val Gln His Leu Ile Ile Phe  
65 70 75 80

Asp Tyr Ile Ser Val Ser Ala Ser Leu Glu Asn Arg Val Cys Glu Tyr  
85 90 95

Val Asp His Leu His Glu His Phe Lys Tyr Pro Val Met Ile Gln Arg  
100 105 110

Ala Ser Tyr Met Pro Pro Lys Asp Pro Gly Tyr Ser Thr Glu Met Lys  
115 120 125

Glu Glu Ser Val Lys Lys His Gln Tyr Pro Asp Gly Glu Val Trp Lys  
130 135 140

Lys Leu Leu Pro Ala Gln Glu Asn  
145 150

<210> 1008

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008

Arg Glu Glu Ile Met Lys Gly Arg Glu Tyr Gln Glu Ala Gly Xaa Trp  
1 5 10 15  
Gly Pro Ser Gln Arg Leu Pro Asn Thr Gly Tyr Ser Leu Ala Pro Asp  
20 25 30  
Asp Ser Cys Ser Phe Gln Met Gln Asn Ala Pro Ser Gln Asp Leu Gln  
35 40 45  
Lys Ser Tyr Pro Ile Ile Gly Leu Ala Gln Ser Ser Glu Pro Tyr His  
50 55 60  
Leu Lys Phe Gln Val  
65

<210> 1009

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009

Val Ile Val Asn Val Leu Asn Tyr Gln Leu Glu Gly Ile Phe Val Leu  
1 5 10 15  
Lys Val Asp Ile Glu Glu Pro Lys Trp Met Met Gly Phe Gly Ala Ser  
20 25 30  
Ser Glu Ser Met Phe Pro Leu Lys Tyr Phe Pro Lys Gln Trp Tyr Thr  
35 40 45  
Trp Leu Phe Tyr Tyr Glu Ile Cys Ile Cys Xaa Val Phe Leu Cys Glu  
50 55 60  
Gln Cys Phe Ser Leu Ser Val Thr Ile Cys Lys Gly Lys Ser Thr Asn  
65 70 75 80  
Ile Asp Tyr Ile Ala Gln Asn  
85

<210> 1010  
<211> 164  
<212> PRT  
<213> Homo sapiens

<400> 1010  
Asp His Pro Ala Glu Glu Leu Gly Gln Ser Ile Cys Ile Cys His Pro  
1 5 10 15  
Arg Thr Leu Thr Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile  
20 25 30  
Phe Gly Leu Leu Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met  
35 40 45  
Ile Lys Leu Thr Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr  
50 55 60  
Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr  
65 70 75 80  
Asp Arg Cys Cys Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys  
85 90 95  
Arg Gly Cys Gly Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly  
100 105 110  
Ser Arg Ile Thr Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys  
115 120 125  
Glu Cys Asp Lys Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr  
130 135 140  
Tyr Asn Lys Lys Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser  
145 150 155 160  
Thr Pro Arg Cys

<210> 1011  
<211> 113  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (106)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1011

Pro Thr Arg Pro Arg Arg Ala Ala Phe Pro Val Trp Val Pro Glu Arg  
1 5 10 15

Thr Ala Leu Leu Thr Cys Pro Leu Gly Ala Ala Pro Gly Ser Ser Arg  
20 25 30

Glu Ala Pro Gly Ile Ala Gly Pro Pro Asn Ser Thr Ala Met Ser Lys  
35 40 45

Leu Gly Lys Phe Phe Lys Gly Gly Gly Ser Ser Lys Ser Arg Ala Ala  
50 55 60

Pro Ser Pro Gln Glu Ala Leu Val Arg Leu Arg Glu Thr Glu Glu Met  
65 70 75 80

Leu Gly Lys Lys Gln Glu Tyr Leu Glu Asn Arg Ile Gln Arg Glu Ile  
85 90 95

Ala Leu Ala Lys Lys Xaa Gly Thr Gln Xaa Lys Arg Gly Ile Xaa Thr  
100 105 110

Lys

&lt;210&gt; 1012

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1012

Leu Thr Asp Leu Pro Cys Asn Lys Ile Val Phe Cys Glu Lys Gln Glu  
1 5 10 15

Met Asn Asn Asn Ser Val Gly Thr Pro Leu Gln Ile Ser Gln Glu Ile  
20 25 30

Gln Lys Asn Cys Glu Gln Val Ala Gly Phe Thr Ile Leu Gln Asp Thr  
35 40 45



Ala Ser Tyr Ser Lys Phe Leu Gln Asp Asn Asp Ala Gln Leu Phe Thr  
50 55 60

Tyr Leu Cys Leu Asn Ile Pro Ile Ser Leu Thr Phe Ile Leu Trp  
65 70 75

<210> 1013

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1013

Gln Asp Arg Glu Gly Phe Gly Ser Gly Gln Ala Gly Asp Gly Tyr Glu  
1 5 10 15

His Leu Ser Phe Glu Thr Cys Arg Gly Gly Asn Glu Gly Arg Gly Pro  
20 25 30

Cys Val Glu Val Phe Ile Gln Glu Ala Val Val Pro Leu Gly Leu Asn  
35 40 45

Ile Ala Ser Xaa Arg Gln  
50

<210> 1014

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1014

Ala Gly Asp Leu Arg Ala Gly Ser Thr Leu Lys Arg Phe Gly Phe Pro

1                      5                      10                      15  
 Arg Pro Gly Trp Gly Glu Arg Ala Gly Cys Pro Leu Asp Ser Pro Pro  
                     20                      25                      30  
 Pro His Leu Met Ser Arg Pro Ser Ala Pro Trp Ser Xaa Ala Ile Met  
                     35                      40                      45  
 Pro Pro Trp Xaa Gly Ala Lys Asp Ile Glu Gly Leu Leu Gly Ala Gly  
                     50                      55                      60  
 Gly Gly Arg Asn Leu Val Ala His Ser Pro Leu Thr Ser His Pro Ala  
                     65                      70                      75                      80  
 Ala Pro Thr Leu Met Pro Ala Val Asn Tyr Ala Pro Leu Asp Leu  
                     85                      90                      95

<210> 1015

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

Gln Lys Arg Ser Glu Asn Ile Lys Gln Val Glu Val Trp Ser Ile Leu  
   1                      5                      10                      15  
 Ser Lys Met Asn Ile Ser Gly Ser Ser Cys Gly Ser Pro Asn Ser Ala  
                     20                      25                      30  
 Asp Thr Ser Ser Asp Phe Lys Asp Leu Trp Thr Lys Leu Lys Glu Cys  
                     35                      40                      45  
 His Asp Arg Glu Val Gln Gly Leu Gln Val Lys Val Thr Lys Leu Lys  
                     50                      55                      60  
 Gln Glu Arg Ile Leu Asp Ala Gln Arg Leu Glu Glu Phe Phe Thr Lys  
                     65                      70                      75                      80  
 Asn Gln Gln Leu Arg Glu Gln Gln Lys Val Leu His Glu Thr Ile Lys  
                     85                      90                      95  
 Val Leu Glu Asp Arg Leu Arg Ala Gly Leu Cys Asp Arg Cys Ala Val  
                     100                      105                      110

Thr Glu Glu His Met Arg Lys Lys Gln Gln Glu Phe Glu Asn Ile Pro  
115 120 125

Ala Ala Xaa Ser  
130

<210> 1016  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1016  
Gly Gly Arg Phe Xaa Val His Arg Thr Pro Ile Thr His Pro Ala Ser  
1 5 10 15

Gln Val Glu Gly Leu Gln Val Arg Arg Cys Ile Pro Gln Gly Leu Met  
20 25 30

Leu Ser Ala Ile Phe Ile Pro Arg Gln Xaa Ser  
35 40

<210> 1017  
<211> 188  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1017

Cys Arg Ala Ser Phe Ala Gly Pro Ala Ala Leu Gln Asp Arg Asp Trp  
1 5 10 15

Gln Arg Thr Val Ile Ala Met Asn Gly Ile Glu Val Lys Leu Ser Val  
20 25 30

Lys Phe Asn Ser Arg Glu Phe Ser Leu Lys Arg Met Pro Ser Arg Lys  
35 40 45

Gln Thr Gly Val Phe Gly Val Lys Ile Ala Val Val Thr Lys Arg Glu  
50 55 60

Arg Ser Lys Val Pro Tyr Ile Val Arg Gln Cys Val Glu Glu Ile Glu  
65 70 75 80

Arg Arg Gly Met Glu Glu Val Gly Ile Tyr Arg Val Ser Gly Val Ala  
85 90 95

Thr Asp Ile Gln Ala Leu Lys Ala Xaa Phe Asp Val Asn Asn Lys Asp  
100 105 110

Val Ser Val Met Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr  
115 120 125

Leu Lys Leu Tyr Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu  
130 135 140

Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser Asp Pro Val Ala  
145 150 155 160

Lys Glu Ser Cys Met Leu Asn Leu Leu Leu Ser Leu Ala Gly Ala Asn  
165 170 175

Leu Ala Ser Xaa Phe Leu Phe Leu Phe Gly Thr Xaa  
180 185

<210> 1018

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1018

Gly Thr Ser Val Asp Glu Gly Ser Ile Ser Pro Arg Thr Leu Ser Ala  
1 5 10 15

Ile Lys Arg Ala Leu Asp Asp Asp Xaa Asp Val Lys Val Cys Ala Gly  
20 25 30

Asp Asp Val Gln Thr Gly Gly Pro Gly Ala Glu Glu Met Arg Ile Asn  
35 40 45

Ser Ser Thr Glu Asn Ser Asp Glu Gly Leu Lys Val Arg Asp Gly Lys  
50 55 60

Gly Ile Pro Phe Thr Ala Thr Leu Ala Ser Ser Ser Val Asn Ser Ala  
65 70 75 80

Glu Glu His Val Ala Ser Thr Asn Glu Gly Arg Glu Pro Thr Asp Ser  
85 90 95

Val Pro Lys Glu Gln Met Ser Leu Val His Val Gly Thr Glu Ala Phe  
100 105 110

Pro Ile Ser Asp Glu Ser Met Ile Lys Asp Arg Lys Asp Arg Leu Pro  
115 120 125

Leu Glu Ser Ala Val Val Arg His Ser Asp Ala Pro Gly Leu Pro Asn  
130 135 140

Gly Arg Glu Leu Thr Pro Ala Ser Xaa Thr Cys Thr Asn Ser Val Ser  
145 150 155 160

Lys Asn Glu Thr His Ala Glu Val Leu Glu Gln Gln Asn Glu Leu Cys  
165 170 175

Pro Tyr Glu Ser Lys Phe Asp Ser Ser Leu Leu Ser Ser Asp Asp Glu  
180 185 190

Thr Lys Cys Lys Pro Asn Ser Ala Ser Glu Val Ile Gly Pro Val Ser  
195 200 205

Leu Gln Glu Thr Ser Ser Ile Val Ser Val Pro Ser Glu Ala Val Asp  
210 215 220

Asn Val Glu Asn Val Val Ser Phe Asn Ala Lys Glu His Glu Asn Phe

225                      230                      235                      240  
Leu Glu Thr Ile Gln Glu Gln Gln Thr Thr Glu Ser Ala Gly Gln Asp  
                         245                      250                      255  
Leu Ile Ser Ile Pro Lys Ala Val Glu Pro Met Glu Ile Asp Ser Glu  
                         260                      265                      270  
Glu Ser Glu Ser Asp Gly Ser Phe Ile Glu Val Gln Ser Val Ile Ser  
                         275                      280                      285  
Asp Glu Glu Leu Gln Ala Glu Phe Pro Glu Thr Ser Lys Pro Pro Ser  
                         290                      295                      300  
Glu Gln Gly Glu Glu Glu Leu Val Gly Thr Arg Glu Gly Glu Ala Pro  
305                      310                      315                      320  
Ala Glu Ser Glu Ser Leu Leu Arg Asp Asn Ser Glu Arg Asp Asp Val  
                         325                      330                      335  
Asp Gly Glu Pro Gln Glu Ala Glu Lys Asp Ala Glu Asp Ser Leu His  
                         340                      345                      350  
Glu Trp Gln Asp Ile Asn Leu Glu Glu Leu Glu Thr Leu Glu Ser Asn  
                         355                      360                      365  
Leu Leu Ala Gln Gln Asn Ser Leu Lys Ala Gln Lys Gln Gln Gln Glu  
                         370                      375                      380  
Arg Ile Ala Ala Thr Val Thr Gly Gln Met Phe Leu Glu Ser Gln Glu  
385                      390                      395                      400  
Leu Leu Arg Leu Phe Gly Ile Pro Tyr Ile Gln Ala Pro Met Glu Ala  
                         405                      410                      415  
Glu Ala Gln Cys Ala Ser Trp Thr  
                         420

<210> 1019

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019

Val Leu Leu Ile Thr Phe Leu Gly Glu Glu Lys Lys Cys Tyr Ser Cys  
1 5 10 15  
Lys Gln Met Tyr Ser Phe Gln Lys Glu Ala Thr Phe Leu Leu Pro Ser  
20 25 30  
Leu Phe Leu Val Ser Ser Pro Arg Leu Ala Ile Xaa Ile Gly Ile Val  
35 40 45  
Met Ala Ser Ile Leu Ser Leu Leu His Pro Tyr Leu Leu Leu Cys Asp  
50 55 60  
Phe Ala Ala Pro Leu Ile Lys Glu Ala Glu Pro Pro Leu Pro Pro Ile  
65 70 75 80  
Gly Ala Gly Phe Glu Ser Asn Arg Met Lys  
85 90

<210> 1020

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020

Thr Arg Pro Ile Arg Pro Pro His Gln Ile Pro Val Asp Thr Leu Xaa  
1 5 10 15  
His Val Ile Asn Gln Thr Gly Gly Tyr Ser Asp Gly Leu Gly Gly Asn  
20 25 30  
Ser Leu Tyr Ser Pro His Asn Leu Asn Ala Asn Xaa Gly Trp Gln Asp  
35 40 45  
Ala Thr Thr Pro Ser Ser Val Thr Ser Pro Thr Glu Gly Pro Gly Ser  
50 55 60  
Val His Ser Asp Thr Ser Asn  
65 70

<210> 1021  
<211> 301  
<212> PRT  
<213> Homo sapiens

<400> 1021

Pro Thr Pro Pro Thr Pro Ile Arg Thr Ala Ala Gln Arg Arg Glu Ile  
1 5 10 15  
Trp Asp Phe Pro Gly Gln Ile Asp Phe Phe Asp Pro Thr Phe Asp Tyr  
20 25 30  
Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Phe Val Ile Asp Ser  
35 40 45  
Gln Asp Asp Tyr Met Glu Ala Leu Ala Arg Leu His Leu Thr Val Thr  
50 55 60  
Arg Ala Tyr Lys Val Asn Thr Asp Ile Asn Phe Glu Val Phe Ile His  
65 70 75 80  
Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp  
85 90 95  
Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys  
100 105 110  
Ile His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe  
115 120 125  
Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr  
130 135 140  
Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys  
145 150 155 160  
Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser  
165 170 175  
Thr Pro Val Asp Met Gln Thr Tyr Glu Leu Cys Cys Asp Met Ile Asp  
180 185 190  
Val Val Ile Asp Ile Ser Cys Ile Tyr Gly Leu Lys Glu Asp Gly Ala  
195 200 205  
Gly Thr Pro Tyr Asp Lys Glu Ser Thr Ala Ile Ile Lys Leu Asn Asn  
210 215 220  
Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val



225                      230                      235                      240  
Cys Phe Val Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr  
                         245                      250                      255  
Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Arg  
                         260                      265                      270  
Met Lys Val Val Lys Ser Arg Lys Val Gln Asn Arg Leu Gln Lys Lys  
                         275                      280                      285  
Lys Arg Ala Thr Pro Asn Gly Thr Pro Arg Val Leu Leu  
                         290                      295                      300

&lt;210&gt; 1022

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1022

Thr Ala Asn Arg Gly Ser Ser Ala Ser Xaa Lys Ala Asp Ser Gly Leu  
1                      5                      10                      15  
Ala Gln Ser Asp Gly Arg Asp Pro Pro Thr Leu Trp Gly Trp Ser Leu  
                         20                      25                      30  
His Leu Ala Leu  
                         35

&lt;210&gt; 1023

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

Ile Arg Gln Ser Ser Arg Glu Arg Ile Trp Arg Pro Pro Leu Trp Ile  
1                      5                      10                      15  
Leu Ala Arg Pro Gly Ser Ala Val Ala Val Arg Ala Gly Phe Pro Thr  
                         20                      25                      30  
Pro Cys Arg Pro Pro Ser Leu Ser Ala Leu Ser Pro Ser Ala Ser Gln

35 40 45

Pro Cys Ser Arg Arg Arg Thr Gly Leu Ser Pro Gly Ser Trp Gly Trp  
50 55 60

Pro Pro Ser Thr Arg Ser Ala Cys Phe Leu Thr Cys Leu Ser Ser Arg  
65 70 75 80

Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val Ile Leu Val  
85 90 95

Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Ala Met Asn Trp Arg Leu  
100 105 110

Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe Ile Ser Ile  
115 120 125

Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile Val Val Met  
130 135 140

Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys Asn Ala Gln  
145 150 155 160

Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp  
165 170

<210> 1024

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024

Ala Trp Gly Ala Ala Arg Arg Gly Arg Gln Arg Pro Cys Pro Leu Leu  
1 5 10 15  
Ala Gly Arg Thr Glu Phe Trp Pro Xaa Cys Glu Gly Lys Ala Glu Ala  
20 25 30  
Cys Xaa Gly Xaa Trp Phe Lys Leu Xaa Gly Gln Gly Lys Gly Arg Gly  
35 40 45  
Glu Trp Phe Ser Arg Ser Arg Arg Leu Cys Ser Arg Trp Thr Leu Glu  
50 55 60  
Asn Lys Gly Glu Ser Ser Arg Glu Gln  
65 70

<210> 1025

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1025

Leu Leu Pro Glu Thr Ala Leu Leu Asn Met Arg Ala Ala Pro Leu Leu  
1 5 10 15  
Leu Ala Arg Ala Ala Ser Leu Ser Leu Gly Phe Leu Phe Leu Leu Phe  
20 25 30  
Phe Trp Leu Asp Arg Ser Val Leu Ala Lys Glu Leu Lys Phe Val Thr  
35 40 45  
Leu Val Phe Arg His Gly Asp Arg Ser Pro Ile Asp Thr Phe Pro Thr  
50 55 60  
Asp Pro Ile Lys Glu Ser Ser Trp Pro Gln Gly Phe Gly Gln Leu Thr  
65 70 75 80  
Gln Leu Gly Met Glu Gln His Tyr Glu Leu Gly Glu Tyr Ile Arg Lys  
85 90 95  
Arg Tyr Arg Lys Phe Leu Asn Glu Ser Tyr Lys His Glu Gln Val Tyr  
100 105 110  
Ile Arg Ser Thr Asp Val Asp Arg Thr Leu Met Ser Ala Met Thr Asn  
115 120 125  
Leu Ala Ala Leu Phe Pro Pro Glu Gly Val Ser Ile Trp Asn Pro Ile

130

135

140

Leu Leu Trp Gln Pro Ile Pro Val His Thr Val Pro Leu Ser Glu Asp  
145 150 155 160

Gln Leu Leu Tyr Leu Thr Phe Gln Glu Leu Pro  
165 170

&lt;210&gt; 1026

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

Ala Asn Trp Asp Leu Glu Met Ile Leu Arg Cys Ser Ser Asn Asp Leu  
1 5 10 15

Glu Leu Leu Gln Ala Glu His Gly Ile Leu Lys Ile Gly Glu Thr Asn  
20 25 30

Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu  
35 40 45

Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val  
50 55 60

Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val  
65 70 75 80

Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala  
85 90 95

Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr  
100 105 110

Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr  
115 120 125

Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser  
130 135 140

Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu  
145 150 155 160

Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg  
165 170 175

His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser  
180 185 190

Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp  
195 200 205

Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala  
210 215 220

Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala  
225 230 235

<210> 1027

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1027

Gly Pro Thr Thr Thr Lys Phe Ala Ala Arg Arg Gln Gly Val Leu Leu  
1 5 10 15

Ile Thr Met Asn Val Leu Leu Gly Ser Val Val Ile Phe Ala Thr Phe  
20 25 30

Val Thr Leu Cys Asn Ala Ser Cys Tyr Phe Ile Pro Asn Glu Gly Val  
35 40 45

Pro Gly Asp Ser Thr Arg Lys Cys Met Asp Leu Lys Gly Asn Lys His  
50 55 60

Pro Ile Asn Ser Glu Trp Gln Thr Asp Asn Cys Glu Thr Cys Thr Cys  
65 70 75 80

Tyr Glu Thr Glu Ile Ser Cys Cys Thr Leu Val Ser Thr Pro Val Gly  
85 90 95

Tyr Asp Lys Asp Asn Cys Gln Arg Ile Phe Lys Lys Glu Asp Cys Lys  
100 105 110

Tyr Ile Val Val Glu Lys Lys Asp Pro Lys Lys Thr Cys Ser Val Ser  
115 120 125

Glu Trp Ile Ile  
130

<210> 1028

<211> 116

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1028

Ser	Leu	Thr	Ser	Cys	Ile	Leu	Glu	Ile	Leu	Gln	Ser	Leu	Ser	Tyr	Ser
1				5					10					15	

Tyr	Gln	Asn	Ser	Cys	Arg	Pro	Leu	Thr	Pro	Asp	Ser	Pro	Cys	Leu	Gln
			20					25					30		

Cys	Pro	Pro	Ala	Cys	Arg	Gly	Gly	Xaa	Val	Thr	Ala	Thr	Leu	Ser	His
			35				40					45			

Gln	Leu	Phe	Ser	Ile	Cys	Arg	Pro	Ser	Trp	Gly	Arg	Val	Pro	Ser	Ser
	50					55					60				

Cys	Ser	Pro	Cys	Leu	Trp	Glu	Lys	Ser	His	Val	Leu	Phe	Ile	Ser	Pro
65					70				75					80	

His	Cys	Thr	Leu	Ser	Leu	Thr	Leu	Asp	Tyr	Asn	Ser	Ser	Glu	Phe	Asp
			85					90					95		

Leu	His	Leu	Leu	Asp	Lys	Pro	Gly	Thr	Val	Leu	Gly	Ile	Met	Xaa	Thr
		100					105						110		

Ile	Arg	Gln	Ile
			115

&lt;210&gt; 1029

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1029

Thr	Leu	Lys	Ser	Glu	Glu	Phe	Gln	Lys	Arg	Leu	His	Pro	Tyr	Lys	Asp
1				5					10					15	

Phe	Ile	Ala	Thr	Leu	Gly	Lys	Leu	Ser	Gly	Leu	His	Gly	Gln	Asp	Leu
			20				25						30		

Phe	Gly	Ile	Trp	Ser	Lys	Val	Tyr	Asp	Pro	Leu	Tyr	Cys	Glu	Ser	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35	40	45
His Asn Phe Thr Leu Pro Ser Trp Ala Thr Glu Asp Thr Met Thr Lys		
50	55	60
Leu Arg Glu Leu Ser Glu Leu Ser Leu Leu Ser Leu Tyr Gly Ile His		
65	70	75
Lys Gln Lys Glu Lys Ser Arg Leu Gln Gly Gly Val Leu Val Asn Glu		
85	90	95
Ile Leu Asn His Met Lys Arg Ala Thr Gln Ile Pro Ser Tyr Lys Lys		
100	105	110
Leu Ile Met Tyr Ser Ala His Asp Thr Thr Val Ser Gly Leu Gln Met		
115	120	125
Ala Leu Asp Val Tyr Asn Gly Leu Leu Pro Pro Tyr Ala Ser Cys His		
130	135	140
Leu Thr Glu Leu Tyr Phe Glu Lys Gly Glu Tyr Phe Val Glu Met Tyr		
145	150	155
Tyr Arg Asn Glu Thr Gln His Glu Pro Tyr Pro Leu Met Leu Pro Gly		
165	170	175
Cys Ser Pro Ser Cys Pro Leu Glu Arg Phe Ala Glu Leu Val Gly Pro		
180	185	190
Val Ile Pro Gln Asp Trp Ser Thr Glu Cys Met Thr Thr Asn Ser His		
195	200	205
Gln Gly Thr Glu Asp Ser Thr Asp		
210	215	

&lt;210&gt; 1030

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1030

His His Ala Trp Leu Ile Phe Leu Ile Xaa Ile Phe Ser Arg Asp Lys
1 5 10 15

Val Ala Leu Cys Cys Pro Gly Trp Tyr Gly Thr Pro Val Leu Lys Arg  
20 25 30

Ser Ser Cys Leu Gly Phe Pro Lys Cys  
35 40

<210> 1031

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031

Pro Gly Trp Ser Gln Ser Xaa Gly Leu Arg Pro Ser Phe His Leu Ile  
1 5 10 15

Leu Pro Lys Asn Trp Asp Tyr Arg His Glu Gln Leu His Leu Val His  
20 25 30

Met Leu Leu Ile Val Glu Glu Val Lys Gly Gln  
35 40

<210> 1032

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1032

Gln Gly Phe Trp His Gln Leu Glu Ile Leu Trp Met Asp Val Leu Pro  
1 5 10 15

Trp Ser Phe Tyr Phe Asn Val Leu Thr Thr Tyr Asp Ser Ser Ile Cys  
20 25 30

Ser Ile Asn Tyr Ile His Tyr His Ser Asn Ser His His Leu Ile Cys  
35 40 45

Ile Xaa Tyr Leu Ile Leu Pro Ser Asn Tyr Gly Ile Ser Asp Leu



50

55

60

&lt;210&gt; 1033

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1033

Lys Leu Cys Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe  
1 5 10 15

Ser Asn Ile Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr  
20 25 30

Thr Pro Ala Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn  
35 40 45

Leu Leu Ile Ser Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser  
50 55 60

&lt;210&gt; 1034

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1034

Val Asn Leu Ala Cys Gly Ala Pro Leu Lys Cys Glu Asp Leu Ala Xaa  
1 5 10 15

Trp Leu Lys Ile Lys Leu Gly Phe Val Leu Asn Ile Leu Ala Gly Pro  
20 25 30

[illegible]

```
<210> 1035
<211> 143
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 1035
Gly Leu Arg Asp Leu Asp Ser Asn Pro Arg Ala Leu Ser Cys Tyr Ser
  1             5             10             15
Gly Val Ser Thr Val Arg Xaa Gly Pro Gly Ala Leu Ser His His Leu
  20             25             30
Pro Arg Pro Arg Asp His His Pro Leu Lys Arg Gly Pro Ser Pro Leu
  35             40             45
Ser Thr Pro Ser Arg Asp Pro Ala Leu Gly Cys Ser Arg Leu Thr Ala
  50             55             60
His Gly Val Leu Phe Trp Ala Thr Ala Ala Arg Ala Pro Gly Arg Gly
  65             70             75             80

```

Xaa Gly Thr Pro Glu Asn Thr Pro Leu Phe Met Val Leu Cys Pro Phe  
85 90 95

Ile Arg Arg Leu Leu Lys Asn Trp Ala Val Cys Lys Ala Asn Pro Ala  
100 105 110

Pro Cys Pro Ser Arg Phe Ser Glu Arg Gly Val Pro Trp Glu Trp Ser  
115 120 125

Cys Ser Pro His Gly Ser Thr Thr Phe Pro Val Pro Arg Cys His  
130 135 140

<210> 1036

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036

Glu His Ile Trp Leu Ser Ile Trp Asp Arg Pro Pro Arg Ser Cys Phe  
1 5 10 15

Thr Arg Ile Gln Arg Ala Thr Cys Cys Val Leu Leu Ile Cys Leu Phe  
20 25 30

Leu Gly Ala Asn Ala Val Trp Tyr Gly Ala Val Gly Asp Ser Ala Tyr  
35 40 45

Ser Thr Gly Xaa Val Ser Arg Leu Xaa Pro Leu Ser Val Asp Thr Val  
50 55 60

Ala Val Gly Leu Val Ser Ser Val Val Val Tyr Pro Val Tyr Leu Ala  
65 70 75 80

Xaa Leu Phe Leu Phe Xaa Met Ser Arg Ser Lys Val Ile Asn Thr Leu  
85 90 95

Ala Asp His Arg His Arg Gly Thr Asp Phe Gly Gly Ser Pro Trp Leu  
100 105 110

Leu Ile Ile Asn Cys Val Ser Glu Lys Leu  
115 120

<210> 1037

<211> 29

<212> PRT

<213> Homo sapiens

<400> 1037

Thr Pro Gly Leu Lys Gln Ser Phe Cys Leu Gly Pro Pro Lys Cys Trp  
1 5 10 15

Asp Cys Gly His Glu Leu Leu Cys Pro Ala Ser Met Phe  
20 25

<210> 1038

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1038

Glu Thr Ala Arg Gly Thr Gly Arg Asn Gly Leu Ser Ala Leu Asn His  
1 5 10 15

His Lys Pro Trp Leu Arg Lys Gly His Ala Ser Pro Ser Arg Arg Met  
20 25 30

Thr Pro Ile Arg Asp Pro Gln Arg Arg Cys Met Ser Ile Leu Ala Pro  
 35 40 45  
 Arg Ala Val Met Gln Pro Ala Arg Ser Gln Gly Glu Gly Thr Gln Lys  
 50 55 60  
 Pro Gly Met Leu Ala Lys Gly Val Lys Glu Thr Phe Glu Leu Phe Thr  
 65 70 75 80  
 Ala Cys Ser Asn Tyr Val Lys Xaa Thr Pro Leu Asn Lys Ile Trp Ser  
 85 90 95  
 Met Phe Val Xaa Leu Tyr Leu Ile  
 100

<210> 1039  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1039  
 Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg  
 1 5 10 15  
 Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val  
 20 25 30  
 Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg  
 35 40 45  
 Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile  
 50 55 60  
 Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg  
 65 70 75 80  
 Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr  
 85 90 95  
 Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala  
 100 105 110  
 Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe  
 115 120 125  
 Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser  
 130 135 140  
 Asp Phe Leu Ile Lys Ser Ile Asn Leu Glu Lys Lys

145

150

155

&lt;210&gt; 1040

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1040

Pro Ser Pro Cys Pro Cys Ser Cys Ala Trp Val Arg Trp Pro Arg Arg  
1 5 10 15

Thr Pro Pro Ser Arg Thr Thr Arg Ala Arg Thr His Gln Xaa Arg Asp  
20 25 30

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
35 40 45

Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp  
50 55 60

Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu  
65 70 75 80

Asp Pro Ala Met Trp  
85

&lt;210&gt; 1041

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1041

Leu Gly Gln Tyr Gln Pro Ala Arg Glu Glu Ile Ser Lys Asp Leu Arg  
1 5 10 15

Ala Thr Leu Asn Ala Phe Leu Tyr His Met Gly Gln His Ser Asn Lys  
20 25 30

Phe Met Leu Val Leu Ala Ser Asn Leu Pro Glu Gln Phe Asp Cys Ala  
35 40 45

Ile Asn Ser Arg Ile Asp Val Met Val His Phe Asp Leu Pro Gln Xaa  
50 55 60

Glu Glu Arg Glu Arg Leu Val Arg Leu His Phe Asp Asn Cys Val Leu  
65 70 75 80

Lys Pro Ala Thr Glu Gly Lys Arg Arg Leu Lys Leu Ala Gln Phe Asp  
85 90 95

Tyr Gly Arg Lys Cys Ser Glu Val Ala Arg Leu Thr Glu Gly Met Ser  
100 105 110

Gly Arg Glu Ile Ala Gln Leu Ala Val Ser Trp Gln Ala Thr Ala Tyr  
115 120 125

Ala Ser Lys Asp Gly Val Leu Thr Glu Ala Met Met Asp Ala Cys Val  
130 135 140

Gln Asp Ala Val Gln Gln Tyr Arg Gln Lys Met Arg Trp Leu Lys Ala  
145 150 155 160

Glu Gly Pro Gly Arg Gly Val Glu His Pro Leu Ser Gly Val Gln Gly  
165 170 175

Glu Thr Leu Thr Ser Trp Ser Leu Ala Thr Asp Pro Ser Tyr Pro Cys  
180 185 190

Leu Ala Gly Pro Cys Thr Phe Arg Ile Cys Ser Trp Met Gly Thr Gly  
195 200 205

Leu Cys Pro Gly Pro Leu Ser Pro Arg Met Ser Cys Gly Gly Gly Arg  
210 215 220

Pro Phe Cys Pro Pro Gly His Pro Leu Leu  
225 230

&lt;210&gt; 1042

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1042

Ala Asn Leu Met Lys Cys Lys Val Gln Ala Gly Met Ile Xaa Ser Val  
1 5 10 15

Cys Lys Asp Lys Ser Phe Asp Asp Glu Glu Ser Val Asp Gly Asn Arg  
20 25 30

Pro Ser Ser Ala Ala Ser Ala Phe Lys Val Pro Ala Leu Lys His Pro  
35 40 45

Glu Ile Leu Pro Thr Val Gln Gly Ser Trp Phe Ser Arg Trp Pro  
50 55 60

&lt;210&gt; 1043

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

Gln Leu Arg Ser Arg Ala Gly Leu Leu Ser Ser Thr Val Arg Ala Arg  
1 5 10 15

Asn Trp Pro Gln Asn Pro Gln Ser Gln Pro Trp Gly Pro Leu Gly Pro  
20 25 30

Gln Thr Pro Val Phe Ser Phe Cys Val Ala Ser Trp Phe Pro Gly Val  
35 40 45

Leu Phe Tyr Ala Ala Ser Gly Val Arg Ser Ser Ala Phe Asn Leu Phe  
50 55 60

&lt;210&gt; 1044

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1044

Ala Ser Arg Ser Leu Pro Thr Ala Ala Val His Val Arg Leu Leu Pro  
1 5 10 15

Leu Cys Ala Glu Arg Gln Glu Asp His Glu Asn Asp Pro Leu Ser Glu  
20 25 30



Leu Gln Arg Gln Ile Ala Gln Pro Glu Met Arg Cys Thr Ile Arg Leu  
35 40 45

Leu Asp Asp Ser Glu Ile Ser Cys His Ile Gln Arg Glu Thr Lys Gly  
50 55 60

Gln Phe Leu Ile Asp His Ile Cys Asn Tyr Tyr Ser Leu Leu Glu Lys  
65 70 75 80

Asp Tyr Phe Gly Ile Arg Tyr Val Asp Pro Glu Lys Gln Arg His Trp  
85 90 95

Ala

<210> 1045

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1045

Thr Leu Ile Phe Pro Pro Leu Arg Ile Ile Asn Phe Leu Ser Phe Tyr  
1 5 10 15

His Ile Cys Phe Arg Ser Phe Phe Phe Leu Lys Lys Ser Ile Thr Asp  
20 25 30

Leu Ala Lys Val Pro Phe Asp Gln Tyr Pro Thr  
35 40

<210> 1046

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1046

Arg	Ser	Gly	Arg	Leu	Arg	Leu	Ser	Leu	Tyr	Cys	Gly	Ala	Gly	Gln	Gly
1				5					10					15	

Val	Arg	Ala	Gly	Arg	Gly	Thr	Gly	Thr	Pro	Ala	Val	Xaa	Gly	Arg	Leu
			20					25						30	

Glu	Ile	Met	Glu	Gly	Lys	Trp	Leu	Leu	Cys	Met	Leu	Leu	Val	Leu	Gly
		35					40						45		

Thr	Ala	Ile	Val	Glu	Ala	His	Asp	Gly	His	Asp	Asp	Asp	Val	Ile	Asp
	50					55					60				

Ile	Glu	Asp	Asp	Leu	Asp	Asp	Val	Ile	Glu	Glu	Val	Glu	Asp	Ser	Lys
65					70					75					80

Pro	Asp	Thr	Thr	Ala	Pro	Pro	Ser	Ser	Pro	Lys	Val	Thr	Tyr	Lys	Ala
				85					90						95

Pro	Val	Pro	Thr	Gly	Glu	Val	Tyr	Phe	Ala	Asp	Ser	Phe	Asp	Arg	Gly
			100					105					110		

Thr	Leu	Ser	Gly	Trp	Ile	Leu	Ser	Lys	Ala	Lys	Lys	Asp	Asp	Thr	Asp
		115					120						125		

Asp	Glu	Ile	Ala	Lys	Tyr	Asp	Gly	Lys	Trp	Glu	Val	Glu	Glu	Met	Lys
	130						135					140			

Glu	Ser	Lys	Leu	Pro	Gly	Asp	Lys	Gly	Leu	Val	Leu	Met	Ser	Arg	Ala
145					150					155					160

Lys	His	His	Ala	Ile	Ser	Ala	Lys	Leu	Asn	Lys	Pro	Phe	Leu	Phe	Asp
				165					170						175

Thr Lys Pro Leu Ile Xaa Gln Tyr Glu Xaa Asn Phe Gln Asn Gly Ile  
180 185 190  
Glu Cys Gly Gly Ala Tyr Val Lys Leu Leu Ser Lys Thr Pro Glu Leu  
195 200 205  
Xaa Leu Asp Xaa Val Xaa Arg Thr Ile Asn Cys Leu His  
210 215 220

<210> 1047  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1047  
Gly Ile Pro Pro His Phe Cys Gly Phe Phe Pro Val Val Asp Asp Gln  
1 5 10 15  
Gly Trp Asn Leu Gln Ser Met Gly Pro Asp Phe Leu Pro Ser Ser Gln  
20 25 30  
Ile Asp Ser Ala Ala Ser His Leu Cys Ser Ala Pro Val Ala Leu Lys  
35 40 45  
Cys Asn Arg Asn His His Pro Arg Thr Met Gly Ser Met Pro Val Gly  
50 55 60  
Lys Ala Gln Val Arg Ser Leu Ser Ser Gln His Ile Ala Val Ala Gly  
65 70 75 80

Thr Trp

<210> 1048  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048

Pro Gly Ser Pro Asp Gln Arg Pro Thr Pro Gln Gly Glu Phe Ile Leu  
1 5 10 15  
Cys Gln Gln Gln Ser Phe Pro Ser Ser Glu Ala Ser His Pro His Pro  
20 25 30  
Arg Arg Gln Gly Lys Gln Ala Arg Gly Gly Gln Glu Ser Ser Gln Leu  
35 40 45  
Ser Glu Ala Ala Pro Pro Ala Pro Lys His Leu Pro Cys Ser Gln Leu  
50 55 60  
Xaa Xaa Gln Leu Leu Pro Ala Ala Lys Xaa Thr Ala Ala Phe Arg Leu  
65 70 75 80  
Thr Ser Met Pro Leu  
85

<210> 1049

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1049

Ser Pro Cys Arg Glu Glu Ser Gln Gln Ile Ile Ser Lys Leu Glu Asn  
1 5 10 15  
Gln Glu Ile Thr Val Ile Ile Arg Asp Ile Trp Gly Gly Tyr Lys Tyr  
20 25 30  
Gln Asn Lys Lys Ile Lys Glu Met Lys Ile Val Val Ser Gly Glu Leu  
35 40 45  
Lys Ser Lys Ile Gln Arg Cys Glu Ala Asp Leu Ile Tyr Tyr Leu Thr  
50 55 60  
Cys Ile Leu Phe Ile Ala Gln Tyr Ser Val Phe  
65 70 75

<210> 1050  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1050  
Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu  
1 5 10 15

Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu  
20 25 30

Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr  
35 40

<210> 1051  
<211> 341  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1051  
Gly Pro Gln Glu Met Thr Ala Gly Gly Gln Ala Glu Ala Glu Gly Ala  
1 5 10 15

Gly Gly Glu Pro Gly Ala Ala Arg Leu Pro Ser Arg Val Ala Arg Leu  
20 25 30

Leu Ser Ala Leu Phe Tyr Gly Thr Cys Ser Phe Leu Ile Val Leu Val  
35 40 45

Asn Lys Ala Leu Leu Thr Thr Tyr Gly Phe Pro Ser Pro Ile Phe Leu  
50 55 60

Gly Ile Gly Gln Met Ala Ala Thr Ile Met Ile Leu Tyr Val Ser Lys

[illegible]

340

<210> 1052  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 1052  
Pro Ala Ala Arg Ala Ala Thr Asp Ser Val Ser Ala Ile Phe Asp Lys  
1 5 10 15  
Gly Lys Lys Val Arg Glu Ser Phe Gln Ala Leu Gly Arg Ile Ile Phe  
20 25 30  
Phe Gln Asp Ala Val Phe Arg Thr Phe Val Ile Lys His Thr Ala Gln  
35 40 45  
Val Ile Thr Gly Ile Asp Ser Asp Ile Arg His Leu Ser Leu Ala Leu  
50 55 60  
Leu Lys Asn Gly Gly Asn Val Ile Ser Trp Ala Gly Val Gly Cys Asn  
65 70 75 80  
Pro Glu Val Pro Leu  
85

<210> 1053  
<211> 724  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (680)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053  
Val Asp Ser Glu Ser Ala Ser Val Val Gly Lys Arg Pro Pro Phe His  
1 5 10 15  
Gly Thr Pro Ser Thr Met Ser Ser Pro Ala Ser Thr Pro Ser Arg Arg  
20 25 30

Gly Ser Arg Arg Gly Arg Ala Thr Pro Ala Gln Thr Pro Arg Ser Glu  
 35 40 45  
 Asp Ala Arg Ser Ser Pro Ser Gln Arg Arg Arg Gly Glu Asp Ser Thr  
 50 55 60  
 Ser Thr Gly Glu Leu Gln Pro Met Pro Thr Ser Pro Gly Val Asp Leu  
 65 70 75 80  
 Gln Ser Pro Ala Ala Gln Xaa Val Leu Phe Ser Ser Pro Pro Gln Met  
 85 90 95  
 His Ser Ser Ala Ile Pro Leu Asp Phe Asp Val Ser Ser Pro Leu Thr  
 100 105 110  
 Tyr Gly Thr Pro Ser Ser Arg Val Glu Gly Thr Pro Arg Ser Gly Val  
 115 120 125  
 Arg Gly Thr Pro Val Arg Gln Arg Pro Asp Leu Gly Ser Ala Gln Lys  
 130 135 140  
 Gly Leu Gln Val Asp Leu Gln Ser Asp Gly Ala Ala Ala Glu Asp Ile  
 145 150 155 160  
 Val Ala Ser Glu Gln Ser Leu Gly Gln Lys Leu Val Ile Trp Gly Thr  
 165 170 175  
 Asp Val Asn Val Ala Ala Cys Lys Glu Asn Phe Gln Arg Phe Leu Gln  
 180 185 190  
 Arg Phe Ile Asp Pro Leu Ala Lys Glu Glu Glu Asn Val Gly Ile Asp  
 195 200 205  
 Ile Thr Glu Pro Leu Tyr Met Gln Arg Leu Gly Glu Ile Asn Val Ile  
 210 215 220  
 Gly Glu Pro Phe Leu Asn Val Asn Cys Glu His Ile Lys Ser Phe Asp  
 225 230 235 240  
 Lys Asn Leu Tyr Arg Gln Leu Ile Ser Tyr Pro Gln Glu Val Ile Pro  
 245 250 255  
 Thr Phe Asp Met Ala Val Asn Glu Ile Phe Phe Asp Arg Tyr Pro Asp  
 260 265 270  
 Ser Ile Leu Glu His Gln Ile Gln Val Arg Pro Phe Asn Ala Leu Lys  
 275 280 285  
 Thr Lys Asn Met Arg Asn Leu Asn Pro Glu Asp Ile Asp Gln Leu Ile  
 290 300



Thr Ile Ser Gly Met Val Ile Arg Thr Ser Gln Leu Ile Pro Glu Met  
305 310 315 320

Gln Glu Ala Phe Phe Gln Cys Gln Val Cys Ala His Thr Thr Arg Val  
325 330 335

Glu Met Asp Arg Gly Arg Ile Ala Glu Pro Ser Val Cys Gly Arg Cys  
340 345 350

His Thr Thr His Ser Met Ala Leu Ile His Asn Arg Ser Leu Phe Ser  
355 360 365

Asp Lys Gln Met Ile Lys Leu Gln Glu Ser Pro Glu Asp Met Pro Ala  
370 375 380

Gly Gln Thr Pro His Thr Val Ile Leu Phe Ala His Asn Asp Leu Val  
385 390 395 400

Asp Lys Val Gln Pro Gly Asp Arg Val Asn Val Thr Gly Ile Tyr Arg  
405 410 415

Ala Val Pro Ile Arg Val Asn Pro Arg Val Ser Asn Val Lys Ser Val  
420 425 430

Tyr Lys Thr His Ile Asp Val Ile His Tyr Arg Lys Thr Asp Ala Lys  
435 440 445

Arg Leu His Gly Leu Asp Glu Glu Ala Glu Gln Lys Leu Phe Ser Glu  
450 455 460

Lys Arg Val Glu Leu Leu Lys Glu Leu Ser Arg Lys Pro Asp Ile Tyr  
465 470 475 480

Glu Arg Leu Ala Ser Ala Leu Ala Pro Ser Ile Tyr Glu His Glu Asp  
485 490 495

Ile Lys Lys Gly Ile Leu Leu Gln Leu Phe Gly Gly Thr Arg Lys Asp  
500 505 510

Phe Ser His Thr Gly Arg Gly Lys Phe Arg Ala Glu Ile Asn Ile Leu  
515 520 525

Leu Cys Gly Asp Pro Gly Thr Ser Lys Ser Gln Leu Leu Gln Tyr Val  
530 535 540

Tyr Asn Leu Val Pro Arg Gly Gln Tyr Thr Ser Gly Lys Gly Ser Ser  
545 550 555 560

Ala Val Gly Leu Thr Ala Tyr Val Met Lys Asp Pro Glu Thr Arg Gln  
565 570 575

Leu Val Leu Gln Thr Gly Ala Leu Val Leu Ser Asp Asn Gly Ile Cys  
                   580                                  585                                  590  
 Cys Ile Asp Glu Phe Asp Lys Met Asn Glu Ser Thr Arg Ser Val Leu  
                   595                                  600                                  605  
 His Glu Val Met Glu Gln Gln Thr Leu Ser Ile Ala Lys Ala Gly Ile  
                   610                                  615                                  620  
 Ile Cys Gln Leu Asn Ala Arg Thr Ser Val Leu Ala Ala Ala Asn Pro  
                   625                                  630                                  635                                  640  
 Ile Glu Ser Gln Trp Asn Pro Lys Lys Thr Thr Ile Glu Asn Ile Gln  
                                   645                                  650                                  655  
 Leu Pro His Thr Leu Leu Ser Arg Phe Asp Leu Ile Phe Leu Met Leu  
                   660                                  665                                  670  
 Asp Pro Gln Asp Glu Ala Tyr Xaa Gln Ala Ser Gly Ser Pro Pro Gly  
                   675                                  680                                  685  
 Arg Thr Val Leu Pro Glu Arg Gly Ala Gly Arg Gly Gly Ala Pro Gly  
                   690                                  695                                  700  
 His Gly Gly Ala Lys Gly Leu His Cys Leu Arg Ala Gln His His His  
                   705                                  710                                  715                                  720  
 Ala Ala Ala Lys

&lt;210&gt; 1054

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1054

Leu Leu Cys Phe Tyr Glu Pro Arg Cys Ser Arg Lys Trp Xaa Gln Arg  
   1                                  5                                  10                                  15

His Ala Ser Xaa Arg Ser Pro Tyr Pro Ala Phe Val Pro Ala Val Pro  
20 25 30

Lys Ser Leu Ala Arg Ile Leu His Leu Gly Lys Lys Val Leu Asn Ala  
35 40 45

Asn Val Thr Pro  
50

<210> 1055

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1055

Arg Arg Gly Phe Gly Gly Val Arg Ala Ser Glu Ala Cys Gly Leu Arg  
1 5 10 15

Arg Arg Ala Gly Phe Gly Gly Val Arg Ala Ser Gly Ala Met Gly Thr  
20 25 30

Pro Pro Gly Leu Gln Thr Asp Cys Glu Ala Leu Leu Ser Arg Phe Gln  
35 40 45

Glu Thr Asp Ser Val Arg Phe Glu Asp Phe Thr Glu Leu Trp Arg Asn  
50 55 60

Met Lys Phe Gly Thr Ile Phe Cys Gly Arg Met Arg Asn Leu Glu Lys  
65 70 75 80

Asn Met Phe Thr Lys Glu Ala Leu Ala Leu Ala Trp Arg Tyr Phe Leu  
85 90 95

Pro Pro Tyr Thr Phe Gln Ile Arg Val Gly Ala Leu Tyr Leu Leu Tyr  
100 105 110

Gly Leu Tyr Asn Thr Gln Leu Cys Gln Pro Lys Gln Lys Ile Arg Val  
115 120 125

Ala Leu Lys Asp Trp Asp Glu Val Leu Lys Phe Gln Gln Asp Leu Val  
130 135 140

Asn Ala Gln His Phe Asp Ala Ala Tyr Ile Phe Arg Lys Leu Arg Leu  
145 150 155 160

Asp Arg Ala Phe His Phe Thr Ala Met Pro Lys Leu Leu Ser Tyr Arg  
165 170 175

Met Lys Lys Lys Ile His Arg Ala Glu Val Thr Glu Glu Phe Lys Asp  
180 185 190

Pro Ser Asp Arg Val Met Lys Leu Ile Thr Ser Asp Xaa Leu Xaa Glu  
195 200 205

Met Leu Asn Gly His Asp His Tyr Gln Asn Met Asn Met  
210 215 220

<210> 1056

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1056

Lys Ala Val Arg Ser Met Leu Leu Ser Ser Leu Arg Glu Asn Phe Leu  
1 5 10 15

Asn Asn Thr Arg Lys Arg Lys Ile Gly Leu Phe Ser Leu Leu Val Leu  
20 25 30

Ser Ile Leu Ser Ser Leu Gln Gly Arg Val Ala Lys Leu Trp Gly Leu  
35 40 45

Asn Pro Glu Gly Gly Leu Ser Gly His Gln Thr  
50 55

<210> 1057

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1057

Ser Leu Pro Trp Arg Val Pro Arg Ser Met Glu Thr Phe Asp Pro Thr  
1 5 10 15

Glu Leu Pro Glu Leu Leu Lys Leu Tyr Tyr Arg Arg Leu Phe Pro Tyr  
20 25 30

Ser Gln Tyr Tyr Arg Trp Leu Asn Tyr Gly Gly Val Ile Lys Asn Tyr  
35 40 45

Phe Gln His Arg Glu Phe Ser Phe Thr Leu Lys Asp Asp Ile Tyr Ile  
50 55 60

Arg Tyr Gln Ser Phe Asn Asn Gln Ser Asp Leu Glu Lys Glu Met Gln  
65 70 75 80

Lys Met Asn Pro Tyr Lys Ile Asp Ile Gly Ala Val Tyr Ser His Arg  
85 90 95

Pro Asn Gln His Asn Thr Val Lys Leu Gly Ala Phe Gln Ala Gln Glu  
100 105 110

Lys Glu Leu Val Phe Asp Ile Asp Met Thr Asp Tyr Asp Asp Val Arg  
115 120 125

Arg Cys Cys Ser Ser Ala Asp Ile Cys Pro Lys Cys Trp Thr Leu Met  
130 135 140

Thr Met Ala Ile Arg Ile Ile Asp Arg Ala Leu Lys Glu Asp Phe Gly  
145 150 155 160

Phe Lys His Arg Leu Trp Val Tyr Ser Gly Arg Arg Gly Val His Cys  
165 170 175

Trp Val Cys Asp Glu Ser Val Arg Asn Cys Leu Leu Gln Tyr Val Xaa  
180 185 190

Gly

&lt;210&gt; 1058

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1058

Asp Glu Asp Asn Glu Lys Glu Lys Arg Asp Ser Leu Gly Asn Glu Glu  
1 5 10 15

Ser Val Asp Lys Thr Ala Cys Glu Cys Val Arg Ser Pro Arg Glu Ser  
20 25 30

Leu Asp Asp Leu Phe Gln Ile Cys Ser Pro Cys Ala Ile Ala Ser Gly  
35 40 45

Leu Arg Xaa Thr Trp Leu Asn  
50 55

&lt;210&gt; 1059

&lt;211&gt; 205

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1059

Arg Val Ser Leu Val Val Thr Glu Thr Val Asp Ala Gly Leu Phe Gly  
1 5 10 15

Glu Gly Ile Val Glu Ser Leu Ile His Ala Trp Glu His Leu Leu Leu  
20 25 30

Gln Pro Lys Thr Lys Gly Glu Ser Ala Asn Cys Glu Lys Tyr Gly Lys  
35 40 45

Val Ile Pro Ala Ser Ala Val Ile Phe Gly Met Ala Val Glu Cys Ala  
50 55 60

Glu Ile Arg Arg His His Arg Val Gly Ile Lys Asp Ile Ala Gly Ile  
65 70 75 80

His Leu Pro Thr Asn Val Lys Phe Gln Ser Pro Ala Tyr Ser Ser Val  
85 90 95

Asp Thr Glu Glu Thr Ile Glu Pro Tyr Thr Thr Glu Lys Met Ser Arg

100	105	110
Val Pro Gly Gly Tyr Leu Ala Leu Thr Glu Cys Phe Glu Ile Met Xaa		
115	120	125
Val Asp Phe Asn Asn Leu Gln Glu Leu Lys Ser Leu Ala Thr Lys Lys		
130	135	140
Pro Gly Lys Ile Gly Ile Pro Val Ile Lys Glu Gly Ile Leu Asp Ala		
145	150	155
Val Val Val Trp Phe Val Leu Gln Leu Asp Asp Glu His Ser Leu Ser		
165	170	175
Thr Ser Pro Asn Glu Glu Thr Cys Trp Glu Gln Ala Val Tyr Pro Val		
180	185	190
His Asp Leu Ala Asp Tyr Arg Ile Lys Arg Gly Asp Xaa		
195	200	205

&lt;210&gt; 1060

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1060

Pro Val Lys Val Trp Glu Gly Leu Arg Glu Lys Arg Ser Val Phe Ser			
1	5	10	15
Ser Gly Ser Gly Ser Cys Lys Leu His Leu Pro Gly Ala Leu Pro Leu			
20	25	30	
Leu Tyr Pro Phe Ala Val Cys Pro Pro Pro Pro Gly Ser Trp Ser Pro			
35	40	45	
Ser Cys Ser Asn Ser Phe Cys Ser Tyr Ser Arg Gly Leu Leu Gly Leu			
50	55	60	
Leu Ser Pro Val Arg Leu Gly Xaa Ala Leu Gly Ser Trp Val Ser Ser			
65	70	75	80
Thr Asp His Ala Arg Pro Leu Arg Pro Gln Ile Ile			
85	90		

<210> 1061  
<211> 295  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (243)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (277)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1061  
Ala Glu Ala Ile Pro Leu Ala Asp Gln Pro His Leu Leu Gln Pro Asn  
1 5 10 15  
Ala Arg Lys Glu Asp Leu Phe Gly Arg Pro Ser Gln Gly Leu Tyr Ser  
20 25 30  
Ser Ser Ala Ser Ser Gly Lys Cys Leu Met Glu Val Thr Val Asp Arg  
35 40 45  
Asn Cys Leu Glu Val Leu Pro Thr Lys Met Ser Tyr Ala Ala Asn Leu  
50 55 60  
Lys Asn Val Met Asn Met Gln Asn Arg Gln Lys Lys Glu Gly Glu Glu  
65 70 75 80  
Gln Pro Val Leu Pro Glu Glu Thr Glu Ser Ser Lys Pro Gly Pro Ser  
85 90 95  
Ala His Asp Leu Ala Ala Gln Leu Lys Ser Ser Leu Leu Ala Glu Ile  
100 105 110  
Gly Leu Thr Glu Ser Glu Gly Pro Pro Leu Thr Ser Phe Arg Pro Gln  
115 120 125  
Cys Ser Phe Met Gly Met Val Ile Ser His Asp Met Leu Leu Gly Arg  
130 135 140  
Trp Arg Leu Ser Leu Glu Leu Phe Gly Arg Val Phe Met Glu Asp Val  
145 150 155 160  
Gly Ala Glu Pro Gly Ser Ile Leu Thr Glu Leu Gly Gly Phe Glu Val  
165 170 175



Lys Glu Ser Lys Phe Arg Arg Glu Met Glu Lys Leu Arg Asn Gln Gln  
180 185 190

Ser Arg Asp Leu Ser Leu Glu Val Asp Arg Asp Arg Asp Leu Leu Ile  
195 200 205

Gln Gln Thr Met Arg Gln Leu Asn Asn His Phe Gly Arg Arg Cys Ala  
210 215 220

Thr Thr Pro Met Ala Val His Arg Val Lys Val Thr Phe Lys Asp Glu  
225 230 235 240

Pro Gly Xaa Gly Ser Gly Val Ala Arg Ser Phe Tyr Thr Ala Ile Ala  
245 250 255

Gln Ala Phe Leu Ser Asn Glu Lys Leu Pro Asn Leu Glu Cys Ile Pro  
260 265 270

Lys Lys Lys Phe Xaa Pro Pro Gln Lys Pro Lys Lys Lys Gly Pro Thr  
275 280 285

Pro Asn His Gln Arg Val Phe  
290 295

<210> 1062

<211> 35

<212> PRT

<213> Homo sapiens

<400> 1062

Gly Glu Glu His Ile Pro Gln Glu Ala Pro Gln Gly Ala Glu Thr Ala  
1 5 10 15

Leu Ile Pro Ala Asp Ile Thr Glu Lys Gln Gln Ser Leu Phe Asn Phe  
20 25 30

Val Thr Met  
35

<210> 1063

<211> 210

<212> PRT

<213> Homo sapiens

<400> 1063

Gln Tyr Phe Met Thr Met Asp Gly Asp Ser Ser Thr Thr Asp Ala Ser  
1 5 10 15

Gln Leu Gly Ile Ser Ala Asp Tyr Ile Gly Gly Ser His Tyr Val Ile  
20 25 30

Gln Pro His Asp Asp Thr Glu Asp Ser Met Asn Asp His Glu Asp Thr  
35 40 45

Asn Gly Ser Lys Glu Ser Phe Arg Glu Gln Asp Ile Tyr Leu Pro Ile  
50 55 60

Ala Asn Val Ala Arg Ile Met Lys Asn Ala Ile Pro Gln Thr Gly Lys  
65 70 75 80

Ile Ala Lys Asp Ala Lys Glu Cys Val Gln Glu Cys Val Ser Glu Phe  
85 90 95

Ile Ser Phe Ile Thr Ser Glu Ala Ser Glu Arg Cys His Gln Glu Lys  
100 105 110

Arg Lys Thr Ile Asn Gly Glu Asp Ile Leu Phe Ala Met Ser Thr Leu  
115 120 125

Gly Phe Asp Ser Tyr Val Glu Pro Leu Lys Leu Tyr Leu Gln Lys Phe  
130 135 140

Arg Glu Ala Met Lys Gly Glu Lys Gly Ile Gly Gly Ala Val Thr Ala  
145 150 155 160

Thr Asp Gly Leu Ser Glu Glu Leu Thr Glu Glu Ala Phe Thr Asn Gln  
165 170 175

Leu Pro Ala Gly Leu Ile Thr Thr Asp Gly Gln Gln Gln Asn Val Met  
180 185 190

Val Tyr Thr Thr Ser Tyr Gln Gln Ile Ser Gly Val Gln Gln Ile Gln  
195 200 205

Phe Ser  
210

&lt;210&gt; 1064

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (216)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (315)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (326)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1064

Leu Arg Pro Ser Val Tyr Pro Val Ala Ser Ser Leu Pro Val Pro Asp  
1 5 10 15

Leu Ile Leu Arg Gln Arg Leu Leu Gln Asp Pro Val Ala Arg Pro Gln  
20 25 30

Ala Met Ala Gly Pro Phe Ser Arg Leu Leu Ser Ala Arg Pro Gly Leu  
35 40 45

Arg Leu Leu Ala Leu Ala Gly Ala Gly Ser Leu Ala Ala Gly Phe Leu  
50 55 60

Leu Arg Pro Glu Pro Val Arg Ala Ala Ser Glu Arg Arg Arg Leu Tyr  
65 70 75 80

Pro Pro Ser Ala Glu Tyr Pro Asp Leu Arg Lys His Asn Asn Cys Met  
85 90 95

Ala Ser His Leu Thr Pro Ala Val Tyr Ala Arg Leu Cys Asp Lys Thr  
100 105 110

Thr Pro Thr Gly Trp Thr Leu Asp Gln Cys Ile Gln Thr Gly Val Asp  
115 120 125

Asn Pro Gly His Pro Phe Ile Lys Thr Val Gly Met Val Ala Gly Asp  
130 135 140

Glu Glu Thr Tyr Glu Val Phe Ala Asp Leu Phe Asp Pro Val Ile Gln  
145 150 155 160

Glu Arg His Asn Gly Tyr Asp Pro Arg Thr Met Lys His Thr Thr Asp  
165 170 175

Leu Asp Ala Ser Lys Ile Arg Ser Gly Tyr Phe Asp Glu Arg Tyr Val  
180 185 190

Leu Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Arg Gly Leu Ser Leu  
195 200 205

Pro Pro Ala Cys Thr Arg Ala Xaa Arg Arg Glu Val Glu Arg Val Val  
 210 215 220  
 Val Asp Ala Leu Ser Gly Leu Lys Gly Asp Leu Ala Gly Arg Tyr Tyr  
 225 230 235 240  
 Arg Leu Ser Glu Met Thr Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp  
 245 250 255  
 His Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Thr Ala Ala Gly  
 260 265 270  
 Met Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asn Glu  
 275 280 285  
 Lys Ser Phe Leu Ile Trp Val Asn Glu Glu Asp His Thr Arg Val Ile  
 290 295 300  
 Ser Met Glu Lys Gly Gly Asn Met Lys Arg Xaa Phe Glu Arg Ser Ala  
 305 310 315 320  
 Glu Ala Ser Lys Arg Xaa Arg Asp Tyr Val Gly Asp  
 325 330

&lt;210&gt; 1065

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1065

Ser Phe Phe Phe Lys Val Ser Arg Ser Glu Ala Ser His Arg Met Ile  
 1 5 10 15  
 Leu Leu Asn Asn Ser His Lys Leu Leu Ala Leu Tyr Lys Ser Leu Ala  
 20 25 30  
 Arg Ser Ile Pro Glu Ser Leu Lys Val Tyr Gly Ser Val Tyr His Ile  
 35 40 45  
 Asn His Gly Asn Pro Phe Asn Met Glu Val Leu Val Asp Ser Trp Pro  
 50 55 60  
 Glu Tyr Gln Met Val Ile Ile Arg Pro Gln Lys Gln Glu Met Thr Asp  
 65 70 75 80  
 Asp Met Asp Ser Tyr Thr Asn Val Tyr Arg Met Phe Ser Lys Glu Pro  
 85 90 95  
 Gln Lys Ser Glu Glu Val Leu Lys Asn Cys Glu Ile Val Asn Trp Lys

100	105	110
Gln Arg Leu Gln Ile Gln Gly	Leu Gln Glu Ser Leu Gly	Glu Gly Ile
115	120	125
Arg Val Ala Thr Phe Ser Lys	Ser Val Lys Val Glu His Ser Arg Ala	
130	135	140
Leu Leu Leu Val Thr Glu Asp Ile Leu Lys Leu Asn Ala Ser Ser Lys		
145	150	155
Ser Lys Leu Gly Ser Trp Ala Glu Thr Gly His Pro Asp Asp Glu Phe		
165	170	175
Glu Ser Glu Thr Pro Asn Phe Lys Tyr Ala Gln Leu Asp Val Ser Tyr		
180	185	190
Ser Gly Leu Val Asn Asp Asn Trp Lys Arg Gly Lys Asn Glu Arg Ser		
195	200	205
Leu His Tyr Ile Lys Arg Cys Ile Glu Asp Leu Pro Ala Ala Cys Met		
210	215	220
Leu Gly Pro Glu Glu Ile Pro Val Ser Trp Val Thr Met Gly Pro Phe		
225	230	235
240		

Leu

&lt;210&gt; 1066

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1066

Glu Val Leu Arg Asp Cys Xaa Ser Pro Asn Ser Ile Ser Ile Met Gly
1                      5                      10                      15

Leu Asn Thr Ser Arg Val Ala Ile Thr Leu Lys Pro Gln Asp Pro Met

20                                      25                                      30  
 Glu Gln Asn Val Ala Glu Leu Leu Gln Phe Leu Leu Val Lys Asp Gln  
                     35                                      40                                      45  
 Ser Lys Tyr Pro Ile Arg Glu Ser Glu Met Arg Glu Tyr Ile Val Lys  
                     50                                      55                                      60  
 Glu Tyr Arg Asn Gln Phe Pro Glu Ile Leu Arg Arg Ala Ala Ala His  
                     65                                      70                                      75                                      80  
 Leu Glu Cys Ile Phe Arg Phe Glu Leu Arg Glu Leu Asp Pro Glu Ala  
                                     85                                      90                                      95  
 His Thr Tyr Ile Leu Leu Asn Lys Leu Gly Pro Val Pro Phe Glu Gly  
                                     100                                      105                                      110  
 Leu Glu Glu Ser Pro Asn Gly Pro Lys Met Gly Leu Leu Met Met Ile  
                                     115                                      120                                      125  
 Leu Xaa Gln Ile Phe Leu Asn Gly Asn Gln Ala Lys Glu Ala  
                                     130                                      135                                      140

&lt;210&gt; 1067

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

Thr Arg Ser Ala Gly Ser Arg Gly Gly Ala Trp Thr Pro Ala Trp Gln  
                     1                                      5                                      10                                      15  
 Val Pro Pro Arg Glu Arg Gly Ser Arg Cys Ile Ser Ala Ala Phe Ile  
                                     20                                      25                                      30  
 Thr Asp Leu Gly Leu His Gln Gly Thr Cys Arg Thr Ala Leu Lys Thr  
                                     35                                      40                                      45  
 Ala Glu Ser Glu Glu Pro Ser Leu Gly Pro Gly Arg Pro Ala Val Gln  
                                     50                                      55                                      60  
 Leu Ala Ser Arg Ile Pro Leu Pro Ala Pro Ala Asp Asp Leu Phe Trp  
                                     65                                      70                                      75                                      80  
 Arg Val Glu Asn Val Leu Gly Phe Lys Val Gln Ser Gly Phe Leu Ser  
                                     85                                      90                                      95  
 Ile His Tyr Ser Cys Leu His Ser Thr Asn Lys Ser Trp Glu Arg  
                                     100                                      105                                      110

<210> 1068  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1068  
Leu Leu Tyr Gln Ser Ile Glu Asp Ser Ser Tyr Leu Leu Pro Val Ala  
1 5 10 15  
Gln Phe Arg Phe Trp Glu Xaa Ala Glu Gln Val Lys His Arg Lys Leu  
20 25 30  
Lys Arg Arg Asn Pro His Phe Gly Pro Ile Phe Leu Leu Asp Tyr Phe  
35 40 45  
Leu Ile Ser Ile Leu Pro Ile Val Leu Met Phe  
50 55

<210> 1069  
<211> 55  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1069  
Cys Leu Ala Val Arg Arg His Glu Leu Arg Thr Val His His Gly Ser  
1 5 10 15  
Glu Arg Xaa Arg Asn Pro Ser Pro Ile Arg Thr Met Thr Asp Ile Leu  
20 25 30  
Ser Arg Gly Pro Lys Ser Met Ile Ser Leu Ala Gly Gly Leu Pro Asn  
35 40 45  
Pro Asn Met Phe Pro Phe Lys  
50 55

<210> 1070  
<211> 369  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (293)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1070  
Asp Arg Ser Phe Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys  
1 5 10 15  
Val Gly Ala Lys Ala Ala Gln Gln Asp Ser Xaa Ser Xaa Gly Glu Ala  
20 25 30  
Leu Gly Gly Xaa Pro Met Val Ala Xaa Phe Gln Asp Asp Val Asp Leu  
35 40 45  
Glu Asp Gln Pro Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro  
50 55 60  
Ser Gln Asp Ile Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala  
65 70 75 80  
Pro Thr Lys Gly Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu  
85 90 95



Thr Lys Trp Ser Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala  
 100 105 110

Pro Thr Arg Thr Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg  
 115 120 125

Thr Gly Pro Glu Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu  
 130 135 140

Pro Gly Lys Gly Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly  
 145 150 155 160

Pro Ile Ala Ala Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe  
 165 170 175

Glu Ser Glu Gly Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val  
 180 185 190

Arg Asp Asp Pro Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu  
 195 200 205

Pro Pro Pro Pro Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn  
 210 215 220

Asp Ser Asp Leu Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu  
 225 230 235 240

Ser Ser Glu Glu Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys Lys  
 245 250 255

Lys Lys Lys Lys Lys Gly Lys Glu Glu Glu Glu Lys Ala Ala Lys Lys  
 260 265 270

Lys Ser Lys His Lys Lys Ser Lys Asp Lys Glu Glu Gly Lys Glu Glu  
 275 280 285

Arg Arg Arg Arg Xaa Gln Arg Pro Pro Arg Ser Arg Glu Arg Thr Ala  
 290 295 300

Ala Asp Glu Leu Glu Ala Phe Leu Gly Gly Gly Ala Arg Ala Ala Ala  
 305 310 315 320

Thr Leu Gly Val Ala Thr Thr Arg Ser Ser Arg Pro Ala Trp Ala Val  
 325 330 335

Ala Ala Leu Gly Arg Gly Ala Cys Leu Ser Leu Pro Gly Glu Ala Phe  
 340 345 350

Ala Ser Val Pro Ser Pro Leu Pro Leu Pro Arg Gly Cys Arg Val Arg  
 355 360 365

Phe

&lt;210&gt; 1071

&lt;211&gt; 209

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (179)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (202)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (208)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1071

Glu Arg Leu Tyr Pro Ala Val Val Val Gly Gly Arg Ala Val Glu Gln  
1 5 10 15

Gln His Arg Arg Gly Ser Arg Glu Ala Gly Ser Ala Arg Ala Glu Met  
20 25 30

Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg Arg  
35 40 45

Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe Phe  
50 55 60

Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu Ala  
65 70 75 80

Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu Leu  
                             85                            90                            95  
 Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile Pro  
                             100                            105                            110  
 His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile Gln  
                             115                            120                            125  
 Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His Tyr  
                             130                            135                            140  
 Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile Ser  
                             145                            150                            155                            160  
 Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe Glu  
                             165                            170                            175  
 Pro Pro Xaa Xaa Gly Tyr Glu Asn Gly Ser Asp Ile Xaa Pro Pro Phe  
                             180                            185                            190  
 Ser Ala Phe Ser Pro Gln Gly Met Pro Xaa Gly Asp Leu Val Tyr Xaa  
                             195                            200                            205

Asn

<210> 1072  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072  
 Leu Gln Gly Leu Leu Ile Asn Pro Leu Thr Leu Ser Pro Ser Asn Thr

1                      5                      10                      15  
Val Ser Gln Ser Leu Phe Phe Trp Leu Gly Phe Tyr Ile Lys Leu Ser  
                    20                      25                      30  
Ile Leu Ser Asn Asp Leu Ser Leu Leu Pro Phe Leu Leu His Ile Pro  
                    35                      40                      45  
Ile Lys Thr Phe Phe Val Phe Asn Ser Cys His Leu Asp Ser Arg Thr  
                    50                      55                      60  
Ser Ser Ile Pro His Val Cys Ser Leu Leu Cys Gln Pro Arg Pro Phe  
                    65                      70                      75                      80  
Leu Tyr Pro Pro Ala Trp Xaa Cys Cys Pro Leu Cys Ser Xaa Leu Thr  
                    85                      90                      95  
Arg Tyr Lys Glu His Glu Asp Gly Tyr Met Arg Leu Gln Leu Val Arg  
                    100                      105                      110  
Xaa Glu Ser Val Glu Leu Thr Gln Gln Leu Leu Arg Gln Pro Gln Glu  
                    115                      120                      125  
Gly Ser Gly Trp Glu Arg Arg  
                    130                      135

<210> 1073

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073

Pro Ser Asp Val Asn Val Met Ala Glu Ser Leu Lys Asp Met Glu Ala  
1                      5                      10                      15

Asp Ala Gln Lys Leu Tyr Gln Leu Ile Trp Arg Gln Phe Val Ala Cys  
20                      25                      30

Gln Met Thr Pro Ala Lys Tyr Asp Ser Thr Thr Leu Thr Val Gly Xaa

35 40 45  
Gly Asp Phe Arg Leu Lys Ala Arg Gly Arg Ile Leu Arg Phe Asp Gly  
50 55 60  
Trp Thr Lys Val Met Pro Ala Leu Arg Lys Gly Asp Glu Asp Arg Ile  
65 70 75 80  
Leu Pro Ala Val Asn Lys Gly Asp Ala Leu Thr Leu Val Glu Leu Thr  
85 90 95  
Pro Ala Gln His Phe Thr Lys Pro Pro Ala Arg Phe Ser Glu Ala Ser  
100 105 110  
Leu Val Lys Glu Leu Glu Lys Arg Gly Ile Gly Arg Pro Ser Xaa Tyr  
115 120 125  
Ala Ser Ile Ile Ser Thr Ile  
130 135

<210> 1074

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (372)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1074

Arg	Asn	Lys	Arg	Glu	Glu	Lys	Lys	Ala	Gln	Asn	Ser	Glu	Xaa	Arg	Met
1				5					10					15	

Lys	Arg	Ala	Gln	Xaa	Tyr	Asp	Ser	Ser	Phe	Pro	Asn	Trp	Glu	Phe	Ala
		20						25					30		

Arg	Met	Ile	Lys	Glu	Phe	Arg	Ala	Thr	Leu	Glu	Cys	His	Pro	Leu	Thr
	35						40					45			

Met	Thr	Asp	Pro	Ile	Glu	Glu	His	Arg	Ile	Cys	Val	Cys	Val	Arg	Lys
	50					55					60				

Arg	Pro	Leu	Asn	Lys	Gln	Glu	Leu	Ala	Lys	Lys	Glu	Ile	Asp	Val	Ile
65					70					75					80

Ser	Ile	Pro	Ser	Lys	Cys	Leu	Leu	Leu	Val	His	Glu	Pro	Lys	Leu	Lys
				85					90					95	

Val	Asp	Leu	Thr	Lys	Tyr	Leu	Glu	Asn	Gln	Ala	Phe	Cys	Phe	Asp	Phe
		100						105					110		

Ala	Phe	Asp	Glu	Thr	Ala	Ser	Asn	Glu	Val	Val	Tyr	Arg	Phe	Thr	Ala
		115					120					125			

Arg	Pro	Leu	Val	Gln	Thr	Ile	Phe	Glu	Gly	Gly	Lys	Ala	Thr	Cys	Phe
	130					135					140				

Ala	Tyr	Gly	Gln	Thr	Gly	Ser	Gly	Lys	Thr	His	Thr	Met	Gly	Gly	Asp
145					150					155					160

Leu	Ser	Gly	Lys	Ala	Gln	Asn	Ala	Ser	Lys	Gly	Ile	Tyr	Ala	Met	Ala
			165						170					175	

Xaa	Arg	Asp	Val	Phe	Leu	Leu	Lys	Asn	Gln	Pro	Cys	Tyr	Arg	Lys	Leu
		180						185					190		

Gly	Leu	Glu	Val	Tyr	Val	Thr	Phe	Phe	Glu	Ile	Tyr	Asn	Gly	Lys	Leu
	195						200					205			

Phe	Asp	Leu	Leu	Asn	Lys	Lys	Ala	Lys	Leu	Arg	Val	Leu	Glu	Asp	Gly
	210					215					220				

Lys	Gln	Gln	Val	Gln	Val	Val	Gly	Leu	Gln	Glu	His	Leu	Val	Asn	Ser
225					230				235						240

Ala Asp Asp Val Ile Lys Met Xaa Asp Met Gly Ser Ala Cys Arg Thr  
245 250 255

Ser Gly Gln Thr Phe Ala Asn Ser Asn Ser Ser Arg Ser His Ala Cys  
260 265 270

Phe Gln Ile Ile Leu Arg Ala Lys Gly Arg Met His Gly Lys Phe Ser  
275 280 285

Leu Val Asp Leu Ala Gly Asn Glu Arg Gly Ala Xaa Thr Ser Ser Ala  
290 295 300

Asp Arg Gln Thr Arg Met Glu Gly Ala Glu Ile Asn Lys Ser Leu Leu  
305 310 315 320

Ala Leu Lys Glu Cys Ile Arg Ala Leu Gly Gln Asn Lys Ala His Thr  
325 330 335

Pro Phe Arg Glu Ser Lys Leu Thr Gln Val Leu Arg Asp Ser Phe Ile  
340 345 350

Gly Glu Asn Ser Arg Thr Cys Met Ile Ala Thr Ile Ser Pro Gly Ile  
355 360 365

Ser Ser Cys Xaa Ile Tyr Phe Lys His Pro Glu Ile Cys Arg Gln Gly  
370 375 380

Gln Gly Ala Glu Pro Pro Gln Trp Ala Gln Trp Arg Ala Val Asp Ser  
385 390 395 400

Asn Gly Asn Arg Arg Asp Gly Ser Leu Leu  
405 410

<210> 1075

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1075

Leu Pro Phe Phe Arg Leu Ser Phe Ala Phe Val Leu Arg Gly Phe Arg  
1 5 10 15

Asn Thr Ala Gln Asn Tyr Arg Glu Asn Thr Pro Ala Arg Ala Leu Ser  
20 25 30

Arg Thr Arg Cys Ala Ala Ser Val Trp Leu Ala Ser Ser Ser Gln Phe  
35 40 45

Pro Thr His Arg Leu Arg Ser Ser Asn Ser His Asp Ile Cys Ser Thr  
50 55 60

Arg Arg Arg Ile Arg Cys Arg Val Leu Ala Arg Pro Phe Ser Ser Ala  
65 70 75 80

Cys Cys Xaa His Arg Cys Val Thr Arg Asn Arg Arg Ala Glu Gln His  
85 90 95

Asp Val Arg Phe Gly Glu Leu His Gln Pro Tyr Pro Gln Ala Gly Ala  
100 105 110

Ala Gly Val Ser Arg Gly Arg Gly Glu Ala Ala Val Gly Asp Arg Trp  
115 120 125

Glu Val Gly Arg Pro Gly Leu Gly Gly Ile Leu Gly Ala Gly Glu Glu  
130 135 140

Met Arg Ala Pro Glu Arg Pro Arg Val Arg Arg Arg Arg Leu Glu Pro  
145 150 155 160

Ser Arg Cys Cys Gly Pro Xaa Gly Pro Phe His Phe Ala Cys Lys Thr  
165 170 175

Gln Ile Lys Thr Gln Cys Asp Tyr Ser Glu Leu Phe Cys Leu Lys Lys  
180 185 190

Asn Val Arg Ser  
195

&lt;210&gt; 1076

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1076

Gln Leu Thr Leu Asn Ile Ser Leu Leu Leu Ser Leu Ser Leu Ser Phe  
1 5 10 15



Phe Phe Asn Met Val Lys Leu Asp Gln Gly Ser Glu His Arg Phe  
20 25 30

<210> 1077

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1077

Asn Cys Pro Asn Pro His Leu His Lys Asn Leu Ser Pro Val His Lys  
1 5 10 15

Ala Asp His Glu Ala Ile Ile Phe Leu Glu Gly Phe Leu Ala Cys Ser  
20 25 30

Pro Val Ala Ser Ala Ala Leu Ala Leu Cys His Ser Glu Pro Lys Gly  
35 40 45

Lys Val Met Glu Gln His His Ile Cys Arg Leu Ser Val Leu Phe Gly  
50 55 60

Glu Gly Lys Gly Arg Glu Cys Arg Arg Met Lys Lys Phe Leu Pro Thr  
65 70 75 80

Ala Ser Ile Leu Ile Phe Leu  
85

<210> 1078

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078

Pro Asp Gln Gly Gly Asp Glu Gly Ile Leu Ser Ser Arg Thr Cys Arg  
1 5 10 15

Gly Thr Arg Gln Gly Pro His Pro Arg Gly Asp Pro Val Ala Arg His

20 25 30  
 Ile Met Gly Thr Ala Gly Trp Pro Gln Ala Ser Ala Pro Leu Leu Pro  
 35 40 45  
 Cys Arg Gln Gly Leu Leu Glu Pro Cys Ala His Pro Gly Leu Leu Arg  
 50 55 60  
 Xaa Gln Pro Cys Thr Glu Ser Ala Asp Val Pro Cys Leu Xaa Thr Arg  
 65 70 75 80  
 Pro Leu Cys Pro Leu  
 85  
  
 <210> 1079  
 <211> 594  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (430)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1079  
 Cys Cys Leu Arg Phe Ser Phe Thr Phe Thr Glu Met Ser Tyr Gly Glu  
 1 5 10 15  
 Ile Glu Gly Lys Phe Leu Gly Pro Arg Glu Glu Val Thr Ser Glu Pro  
 20 25 30  
 Arg Cys Lys Lys Leu Lys Ser Thr Thr Glu Ser Tyr Val Phe His Asn  
 35 40 45  
 His Ser Asn Ala Asp Phe His Arg Ile Gln Glu Lys Thr Gly Asn Asp  
 50 55 60  
 Trp Val Pro Val Thr Ile Ile Asp Val Arg Gly His Ser Tyr Leu Gln  
 65 70 75 80  
 Glu Asn Lys Ile Lys Thr Thr Asp Leu His Arg Pro Leu His Asp Glu  
 85 90 95  
 Met Pro Gly Asn Arg Pro Asp Val Ile Glu Ser Ile Asp Ser Gln Val  
 100 105 110  
 Leu Gln Glu Ala Arg Pro Pro Leu Val Ser Ala Asp Asp Glu Ile Tyr  
 115 120 125

Ser Thr Ser Lys Ala Phe Ile Gly Pro Ile Tyr Lys Pro Pro Glu Lys  
 130 135 140  
 Lys Lys Arg Asn Glu Gly Arg Asn Glu Ala His Val Leu Asn Gly Ile  
 145 150 155 160  
 Asn Asp Arg Gly Gly Gln Lys Glu Lys Gln Lys Phe Asn Ser Glu Lys  
 165 170 175  
 Ser Glu Ile Asp Asn Glu Leu Phe Gln Phe Tyr Lys Glu Ile Glu Glu  
 180 185 190  
 Leu Glu Lys Glu Lys Asp Gly Phe Glu Asn Ser Cys Lys Glu Ser Glu  
 195 200 205  
 Pro Ser Gln Glu Gln Phe Val Pro Phe Tyr Glu Gly His Asn Asn Gly  
 210 215 220  
 Leu Leu Lys Pro Asp Glu Glu Lys Lys Asp Leu Ser Asn Lys Ala Met  
 225 230 235 240  
 Pro Ser His Cys Asp Tyr Gln Gln Asn Leu Gly Asn Glu Pro Asp Lys  
 245 250 255  
 Tyr Pro Cys Asn Gly Gln Val Ile Pro Thr Phe Cys Asp Thr Ser Phe  
 260 265 270  
 Thr Ser Phe Arg Pro Glu Trp Gln Ser Val Tyr Pro Phe Ile Val Pro  
 275 280 285  
 Tyr Gly Pro Pro Leu Pro Ser Leu Asn Tyr His Leu Asn Ile Gln Arg  
 290 295 300  
 Phe Ser Gly Pro Pro Asn Pro Pro Ser Asn Ile Phe Gln Ala Gln Asp  
 305 310 315 320  
 Asp Ser Gln Ile Gln Asn Gly Tyr Tyr Val Asn Asn Cys His Val Asn  
 325 330 335  
 Trp Asn Cys Met Thr Phe Asp Gln Asn Asn Glu Tyr Thr Asp Cys Ser  
 340 345 350  
 Glu Asn Arg Ser Ser Val His Pro Ser Gly Asn Gly Cys Ser Met Gln  
 355 360 365  
 Asp Arg Tyr Val Ser Asn Gly Phe Cys Glu Val Arg Glu Arg Cys Trp  
 370 375 380  
 Lys Asp His Cys Met Asp Lys His Asn Gly Thr Asp Arg Phe Val Asn  
 385 390 395 400

Gln Gln Phe Gln Glu Glu Lys Leu Asn Lys Leu Gln Lys Leu Leu Ile  
                     405                    410                    415  
 Leu Leu Arg Gly Leu Pro Gly Ser Gly Lys Thr Thr Leu Xaa Arg Ile  
                     420                    425                    430  
 Leu Leu Gly Gln Asn Arg Asp Gly Ile Val Phe Ser Thr Asp Asp Tyr  
                     435                    440                    445  
 Phe His His Gln Asp Gly Tyr Arg Tyr Asn Val Asn Gln Leu Gly Asp  
                     450                    455                    460  
 Ala His Asp Trp Asn Gln Asn Arg Ala Lys Gln Ala Ile Asp Gln Gly  
                     465                    470                    475                    480  
 Arg Ser Pro Val Ile Ile Asp Asn Thr Asn Ile Gln Ala Trp Glu Met  
                     485                    490                    495  
 Lys Pro Tyr Val Glu Val Ala Ile Gly Lys Gly Tyr Arg Val Glu Phe  
                     500                    505                    510  
 His Glu Pro Glu Thr Trp Trp Lys Phe Asp Pro Glu Glu Leu Glu Lys  
                     515                    520                    525  
 Arg Asn Lys His Gly Val Ser Arg Lys Lys Ile Ala Gln Met Leu Asp  
                     530                    535                    540  
 Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn Ser Val Glu  
                     545                    550                    555                    560  
 Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Pro Gln Gly Arg Gln  
                     565                    570                    575  
 Arg Trp Gly Gly Ser Leu Gly Ser His Asn Arg Val Cys Val Thr Asn  
                     580                    585                    590

Asn His

<210> 1080

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1080

Leu His Ile Lys Ile Leu Gln Ile Glu Lys Tyr Ile Lys Tyr Ala Met  
 1 5 10 15

Gly Leu Thr Phe Tyr Gln Asn Ser His Met Ile Ser Phe Ile Ser Ser  
 20 25 30

Gly Ser Phe Arg Val Pro Ile Ala Leu Pro Ile Phe Thr Tyr Phe Ile  
 35 40 45

Asn Leu His Xaa Gly Ile Xaa Ser Leu Phe Xaa Phe Phe  
 50 55 60

&lt;210&gt; 1081

&lt;211&gt; 302

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1081

Ala Pro Pro Ala Leu Leu Glu Ala Glu Val Cys Leu Leu Arg Val Gly  
 1 5 10 15

Pro Glu Ala Trp Ser Phe Ser Ala Ser Leu Thr Pro Val Ala Leu Gly  
 20 25 30

Ser Ala Leu Ala Tyr Arg Ser His Gly Val Leu Asp Pro Arg Leu Leu  
 35 40 45

Val Gly Cys Ala Val Ala Val Leu Ala Val His Gly Ala Gly Asn Leu  
 50 55 60

Val Asn Thr Tyr Tyr Asp Phe Ser Lys Gly Ile Asp His Lys Lys Ser  
 65 70 75 80

Asp Asp Arg Thr Leu Val Asp Arg Ile Leu Glu Pro Gln Asp Val Val  
 85 90 95

Arg Phe Gly Val Phe Leu Tyr Thr Leu Gly Cys Val Cys Ala Ala Cys  
 100 105 110

Leu Tyr Tyr Leu Ser Pro Leu Lys Leu Glu His Leu Ala Leu Ile Tyr  
115 120 125

Phe Gly Gly Leu Ser Gly Ser Phe Leu Tyr Thr Gly Gly Ile Gly Phe  
130 135 140

Lys Tyr Val Ala Leu Gly Asp Leu Ile Ile Leu Ile Thr Phe Gly Pro  
145 150 155 160

Leu Ala Val Met Phe Ala Tyr Ala Ile Gln Val Gly Ser Leu Ala Ile  
165 170 175

Phe Pro Leu Val Tyr Ala Ile Pro Leu Ala Leu Ser Thr Glu Ala Ile  
180 185 190

Leu His Ser Asn Asn Thr Arg Asp Met Glu Ser Asp Arg Glu Ala Gly  
195 200 205

Ile Val Thr Leu Ala Ile Leu Ile Gly Pro Thr Phe Ser Tyr Ile Leu  
210 215 220

Tyr Asn Thr Leu Leu Phe Leu Pro Tyr Leu Val Phe Ser Ile Leu Ala  
225 230 235 240

Thr His Cys Thr Ile Ser Leu Ala Leu Pro Leu Leu Thr Ile Pro Met  
245 250 255

Ala Phe Ser Leu Glu Arg Gln Phe Arg Ser Gln Ala Phe Asn Lys Leu  
260 265 270

Pro Gln Arg Thr Ala Lys Leu Asn Leu Leu Leu Gly Leu Phe Tyr Val  
275 280 285

Phe Gly Ile Ile Leu Ala Pro Ala Gly Ser Leu Pro Lys Ile  
290 295 300

<210> 1082

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1082

Gln Asp Val Ser Glu Met Asp Val Xaa Phe Leu Leu Ile Gln Leu Ser  
1 5 10 15

Cys Tyr Phe Ser Ser Gly Ser Cys Gly Lys Val Leu Val Trp Pro Thr  
20 25 30

Glu Tyr Ser His Trp Ile Asn Met Lys Thr Ile Leu Glu Glu Leu Val  
35 40 45

Gln Arg Gly His Glu Val Thr Val Val Xaa Ile Xaa Gly Phe Tyr Ser  
50 55 60

Cys Gln Cys Gln  
65

<210> 1083

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1083

Xaa Pro Pro Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu  
1 5 10 15

Gln Val Arg Ala Ile Arg Leu Ala Leu Glu Gly Val Asp Val Lys Leu  
20 25 30

Glu Gln Ala Ala Arg Thr Leu Gly Ala Gly Arg Trp Arg Val Phe Phe  
35 40 45

Thr Ile Thr Leu Pro Leu Thr Leu Pro Gly Ile Ile Val Gly Thr Val  
50 55 60

Leu Ala Phe Ala Arg Ser Leu Gly Glu Phe Gly Ala His His Leu Cys  
65 70 75 80

Val Glu His Ser Trp  
85

<210> 1084  
<211> 166  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (146)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (159)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1084  
Pro Pro Ser Ala Ser Ser Val Ala Gly Asp Leu Gly Arg Gly Thr Arg  
1 5 10 15

Thr Glu Val Glu Ala Arg Ala Ala Arg Pro Gly Ala Glu Ser Ala Pro  
20 25 30

Ala Ala Ala Met Pro Asp Ser Trp Asp Lys Asp Val Tyr Pro Glu Pro  
35 40 45



Pro Arg Arg Thr Pro Val Gln Pro Asn Pro Ile Val Tyr Met Met Lys  
 50 55 60

Ala Phe Asp Leu Ile Val Asp Arg Pro Val Thr Leu Val Arg Glu Phe  
 65 70 75 80

Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr Tyr His Arg Gln  
 85 90 95

Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp Ile Met  
 100 105 110

Cys Ile Lys Xaa Asp Gln Glu Ile Ile Thr Leu Cys Arg Ile Gly Ser  
 115 120 125

Lys Xaa Xaa Ser Arg Gly Lys Asp Arg Leu Pro Ala Asp Cys Ile Lys  
 130 135 140

Glu Xaa Glu Gln Leu Pro Arg Trp Pro Arg Leu Pro Gly Thr Xaa Ile  
 145 150 155 160

Arg Thr Xaa Gly Pro Thr  
 165

<210> 1085

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (386)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1085

Met Glu Leu Val Ala Gly Cys Tyr Glu Gln Val Leu Phe Gly Phe Ala  
 1 5 10 15

Val His Pro Glu Pro Glu Ala Cys Gly Asp His Glu Gln Trp Thr Leu  
 20 25 30

Val Ala Asp Phe Thr His His Ala His Thr Ala Ser Leu Ser Ala Val  
 35 40 45

Ala Val Asn Ser Arg Phe Val Val Thr Gly Ser Lys Asp Glu Thr Ile  
 50 55 60

His Ile Tyr Asp Met Lys Lys Lys Ile Glu His Gly Ala Leu Val His  
 65 70 75 80

His Ser Gly Thr Ile Thr Cys Leu Lys Phe Tyr Gly Asn Arg His Leu  
85 90 95

Ile Ser Gly Ala Glu Asp Gly Leu Ile Cys Ile Trp Asp Ala Lys Lys  
100 105 110

Trp Glu Cys Leu Lys Ser Ile Lys Ala His Lys Gly Gln Val Thr Phe  
115 120 125

Leu Ser Ile His Pro Ser Gly Lys Leu Ala Leu Ser Val Gly Thr Asp  
130 135 140

Lys Thr Leu Arg Thr Trp Asn Leu Val Glu Gly Arg Ser Ala Phe Ile  
145 150 155 160

Lys Asn Ile Lys Gln Asn Ala His Ile Val Glu Trp Ser Pro Arg Gly  
165 170 175

Glu Gln Tyr Val Val Ile Ile Gln Asn Lys Ile Asp Ile Tyr Gln Leu  
180 185 190

Asp Thr Ala Ser Ile Ser Gly Thr Ile Thr Asn Glu Lys Arg Ile Ser  
195 200 205

Ser Val Lys Phe Leu Ser Glu Ser Val Leu Ala Val Ala Gly Asp Glu  
210 215 220

Glu Val Ile Arg Phe Phe Asp Cys Asp Ser Leu Val Cys Leu Cys Glu  
225 230 235 240

Phe Lys Ala His Glu Asn Arg Val Lys Asp Met Phe Ser Phe Glu Ile  
245 250 255

Pro Glu His His Val Ile Val Ser Ala Ser Ser Asp Gly Phe Ile Lys  
260 265 270

Met Trp Lys Leu Lys Gln Asp Lys Lys Val Pro Pro Ser Leu Leu Cys  
275 280 285

Glu Ile Asn Thr Asn Ala Arg Leu Thr Cys Leu Gly Val Trp Leu Asp  
290 295 300

Lys Val Ala Asp Met Lys Glu Ser Leu Pro Pro Ala Ala Glu Pro Ser  
305 310 315 320

Pro Val Ser Lys Glu Gln Ser Lys Ile Gly Lys Lys Glu Pro Gly Asp  
325 330 335

Thr Val His Lys Glu Glu Lys Arg Ser Lys Pro Asn Thr Lys Lys Arg  
340 345 350

Gly Leu Thr Gly Asp Ser Lys Lys Ala Thr Lys Glu Ser Gly Leu Ile  
355 360 365

Ser Thr Lys Lys Arg Lys Met Val Glu Met Leu Glu Lys Lys Arg Lys  
370 375 380

Lys Xaa Lys Ile Lys Thr Met Gln  
385 390

<210> 1086

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1086

Ala Gly Thr Met His Gly Arg Leu Lys Val Lys Thr Ser Glu Glu Gln  
1 5 10 15

Ala Glu Ala Lys Arg Leu Glu Arg Glu Gln Lys Leu Lys Leu Tyr Gln  
20 25 30

Ser Ala Thr Gln Ala Val Phe Gln Lys Arg Gln Ala Gly Glu Leu Asp  
35 40 45

Glu Ser Val Leu Glu Leu Thr Ser Gln Ile Leu Gly Ala Asn Pro Asp  
50 55 60

Phe Ala Thr Leu Trp Asn Cys Arg Arg Glu Val Leu Gln Gln Leu Glu  
65 70 75 80

Thr Gln Lys Ser Pro Glu Glu Leu Ala Ala Leu Val Lys Ala Glu Leu  
85 90 95

Gly Phe Leu Glu Ser Cys Leu Arg Val Asn Pro Lys Ser Tyr Gly Thr  
100 105 110

Trp His His Arg Cys Trp Leu Leu Gly Xaa Leu Pro Glu Pro Asn Trp  
115 120 125

Thr Arg Glu Leu Glu Leu Cys Ala Arg Phe Leu Glu Val Asp Glu Arg  
130 135 140

Asn Phe His Cys Trp Asp Tyr Arg Arg Phe Val Ala Thr Gln Ala Ala

145                      150                      155                      160  
 Val Pro Pro Ala Glu Glu Leu Ala Phe Thr Asp Ser Leu Ile Thr Arg  
                          165                      170                      175  
 Asn Phe Ser Asn Tyr Ser Ser Trp His Tyr Arg Ser Cys Leu Leu Pro  
                          180                      185                      190  
 Gln Leu His Pro Gln Pro Asp Ser Gly Pro Gln Gly Arg Leu Pro Glu  
                          195                      200                      205  
 Asp Val Leu Leu Lys Glu Leu Glu Leu Val Gln Asn Ala Ser Ser Leu  
                          210                      215                      220  
 Thr Pro Met Thr Arg Val Pro Gly Phe Ile Thr Val Gly Ser  
 225                      230                      235

&lt;210&gt; 1087

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1087

Leu Pro Ile Gln Ile Ser Leu Glu Leu Asp Arg Cys Phe Arg Gly Ala  
   1                  5                  10                  15  
 Ala Leu Glu Arg Gly Phe Gly Leu Cys Lys Gly Arg Lys Glu Val Gln  
                   20                  25                  30  
 Lys Asn Gly Val Gly Gly Ser Ala Gly Arg Leu Leu Lys Cys Gly Arg  
                   35                  40                  45  
 Trp Lys Leu Gly Gly Glu Ile Lys Gly Thr Xaa Asp Gln Leu Val Cys  
                   50                  55                  60  
 Ser Tyr Gln Gly Asp Pro Phe Gln Ser Lys Ser His Met Xaa Val  
   65                  70                  75

<210> 1088  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 1088

```

Ile Pro Val His Leu Val Ser Ser Ser Ser Asn Leu Glu Arg Phe Thr
  1              5              10              15

Ser Arg Arg Ala Pro Gly Val Gly Leu Tyr Asn Leu Lys Thr Leu Leu
      20              25              30

Phe Phe Ser Ser Val Gln Trp Val Leu Ile Pro Thr Met Ala Ile Thr
      35              40              45

Gln Phe Arg Leu Phe Lys Phe Cys Thr Cys Leu Ala Thr Val Phe Ser
      50              55              60

Phe Leu Lys Arg Leu Ile Cys Arg Ser Gly Arg Gly Arg Lys Leu Ser
      65              70              75              80

Gly Asp Gln Ile Thr Leu Pro Thr Thr Val Asp Tyr Ser Ser Val Pro
      85              90              95

Lys Gln Thr Asp Val Glu Glu Trp Thr Ser Trp Asp Glu Asp Ala Pro
      100             105             110

Thr Ser Val Lys Ile Glu Gly Gly Asn Gly Asn Val Ala Thr Gln Gln
      115             120             125

Asn Ser Leu Glu Gln Leu Glu Pro Asp Tyr Phe Lys Asp Met Thr Pro
      130             135             140

Thr Ile Arg Lys Thr Gln Lys Ile Val Ile Lys Lys Arg Glu Pro Leu
      145             150             155             160

Asn Phe Gly Ile Pro Asp Gly Ser Thr Gly Phe Ser Ser Arg Leu Ala
      165             170             175

Ala Thr Gln Asp Leu Pro Phe Ile His Gln Ser Ser Glu Leu Gly Asp
      180             185             190

Leu Asp Thr Trp Gln Glu Asn Thr Asn Ala Trp Glu Glu Glu Glu Asp
      195             200             205

Ala Ala Trp Gln Ala Glu Glu Val Leu Arg Gln Gln Lys Leu Ala Asp
      210             215             220

Arg Glu Lys Arg Ala Ala Glu Gln Gln Arg Lys Lys Met Glu Lys Glu
      225             230             235             240

```

Ala Gln Arg Leu Met Lys Lys Glu Gln Asn Lys Ile Gly Val Lys Leu  
245 250 255

Ser

<210> 1089  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1089  
Asn Ser Ala Arg Ala Asp Leu Arg Ala Ile Asn Ala Asn Leu Asn Glu  
1 5 10 15

Lys Met Glu Ser Leu Thr Ala Val Ser Val Ser Ser Ile Ser Leu Ser  
20 25 30

Asn Ser Cys Pro Ser Leu Thr Val Leu Val Ser Val  
35 40

<210> 1090  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1090  
Gly Arg Pro Ala Cys Ala Arg Glu Pro Gly Leu Glu Pro Tyr Leu Gln  
1 5 10 15

Val Pro Asn Leu Arg Leu Xaa Ser Leu Ser Leu Pro Gln Pro Arg Thr  
20 25 30

Lys Thr Ser Pro Pro Glu Gly Leu Pro Gln Leu Arg Glu Arg Ser Arg  
35 40 45

Ser Ser Leu Gly Pro Gly Cys Ala Pro Gly Ala Gly Ser Asp Val Val  
 50 55 60

Ser Ser Pro Leu Arg Thr Gly Pro Ala Arg Ser Ser Trp Pro Pro Ser  
 65 70 75 80

Arg Ala Pro Ser Xaa Pro Pro Ser Ser Thr Ala Thr Thr Cys Arg Trp  
 85 90 95

<210> 1091

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091

Lys Ala Lys Phe Asn Ile Thr Gly Ala Cys Leu Asn Asp Ser Asp Asp  
 1 5 10 15

Asp Ser Pro Asp Leu Asp Leu Asp Gly Asn Glu Ser Xaa Leu Ala Leu  
 20 25 30

Leu Met Ser Asn Gly Xaa Thr Lys Arg Val Lys Ser Leu Ser Lys Ser  
 35 40 45

Arg Arg Thr Lys Ile Ala Lys Lys Val Asp Lys Ala Arg Leu Met Ala  
 50 55 60

Glu Gln Val Met Glu Asp Glu Phe Asp Leu Xaa Ser Asp Xaa Glu Leu  
65 70 75 80  
Gln Ile Asp Glu Arg Leu Gly Lys Glu Lys Ala Thr Leu Ile Ile Arg  
85 90 95  
Pro Lys Phe Pro Arg Lys Leu Pro Arg Ala Asn Leu Ala Leu Thr Pro  
100 105 110  
Thr Glu Phe Val Asn Gln Glu Lys Leu Ser Leu Thr Leu Arg Arg Ile  
115 120 125  
Tyr Asn Arg  
130

<210> 1092  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 1092  
Leu Arg Ile Thr Val Leu Leu Thr Ser Phe Leu Met Val Leu Gly Thr  
1 5 10 15  
Gly Leu Arg Cys Ile Pro Ile Ser Asp Leu Ile Leu Lys Arg Arg Leu  
20 25 30  
Ile His Gly Gly Gln Met Leu Asn Gly Leu Ala Gly Pro Thr Val Met  
35 40 45  
Asn Ala Ala Pro Phe Leu Ser Thr Thr Trp Phe Ser Ala Asp Glu Arg  
50 55 60  
Ala Thr Ala Thr Ala Ile Ala Ser Met Leu Ser Tyr Leu Gly Gly Ala  
65 70 75 80  
Cys Ala Phe Leu Val Gly Pro Leu Val Val Pro Ala Pro Asn Gly Thr  
85 90 95  
Ser Pro Leu Leu Ala Ala Glu Ser Ser Arg Ala His Ile Lys Asp Arg  
100 105 110  
Ile Glu Ala Val Leu Tyr Ala Glu Phe Gly Val Val Cys Leu Ile Phe  
115 120 125  
Ser Ala Thr Leu Ala Tyr Phe Pro Pro Arg Pro Pro Leu Pro Pro Ser  
130 135 140



Val Ala Ala Ala Ser Gln Arg Glu Leu Ser Glu Lys Arg Leu  
 145 150 155

<210> 1093  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

<400> 1093  
 Arg Ala Ala Gln Leu Trp Val Trp Glu Gly Val Val Gln Pro Pro Ala  
 1 5 10 15

Ala Trp Gly Gly Pro Trp Ser Ala Ser Arg Cys Gln Gln Gly Lys Gly  
 20 25 30

Gly Val Leu Glu Asn Glu Gly Phe Ile Gly Leu Leu Arg Glu Ala Pro  
 35 40 45

Gln Pro Gln Thr His His Leu Ala Val Asp Thr Cys Val Ser Met Trp  
 50 55 60

Asp Leu Val Leu Ser Ile Ala Leu Ser Val Gly Cys Thr Gly Ala Val  
 65 70 75 80

Pro Leu Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His  
 85 90 95

Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His Cys  
 100 105 110

Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys  
 115 120 125

Leu Lys Lys Asn Ser Gln Val Trp Leu Gly Arg His Asn Leu Phe Glu  
 130 135 140

Pro Glu Asp Thr Gly Gln Arg Val Pro Val Ser His Ser Phe Pro His  
 145 150 155 160

Pro Leu Tyr Asn Met Ser Leu Leu Lys His Gln Ser Leu Arg Pro Asp  
 165 170 175

Glu Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Ala  
 180 185 190

Lys Ile Thr Asp Val Val Lys Val Leu Gly Leu Pro Pro Arg Ser Gln  
 195 200 205

His Trp Gly Pro Pro Ala Thr Pro Gln Ala Gly Ala Ala Ser Asn Gln

210

215

220

Arg Ser Ser Cys Ala Pro Gly Val Phe Ser Val  
225 230 235

&lt;210&gt; 1094

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1094

Arg Arg Xaa Xaa Gly Arg Thr Asp Thr Ser Arg Ser Thr Ser Gly Glu  
1 5 10 15

Pro Lys Glu Arg Asp Lys Glu Glu Gly Lys Asp Ser Lys Pro Arg Ser  
20 25 30

Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro Asn  
35 40 45

Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys Asp  
50 55 60

Tyr Glu Gln Lys Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp Ala  
65 70 75 80

Arg Gln Asp Ser Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu Pro  
85 90 95

Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr Ser  
100 105 110

Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys Leu  
115 120 125

<210> 1095  
<211> 214  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (161)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (198)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (206)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1095  
Ile Leu Phe Ser Ser Leu Leu Thr Cys Asn Phe Cys Leu Pro Ile Pro  
1 5 10 15  
Pro Ser Pro Leu Ser Phe Pro Glu Arg His Leu Gly Ser Tyr Leu Leu  
20 25 30  
Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro  
35 40 45  
Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val  
50 55 60  
Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro  
65 70 75 80  
Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val  
85 90 95  
Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu  
100 105 110  
Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu  
115 120 125  
Lys Glu Arg Pro Ser Pro Gly Pro Pro Trp Ser Pro Cys Ile Thr Ala  
130 135 140  
Ile Leu Thr Thr His Thr Cys Thr Ala Trp Ala Val Glu Pro Ser Phe  
145 150 155 160

Xaa Val Met Pro Ala Gln Val Thr Thr Ile Met Ile Lys Asn Cys Leu  
165 170 175  
Pro Gln Gly Val Ser Met Lys Ser Thr Arg Gly Gln Gly Gln Gly Ala  
180 185 190  
Arg Val Cys Thr Pro Xaa Leu Leu Glu Ile Cys Val Glu Xaa Ser Asp  
195 200 205  
Ser Ser Leu Val Arg Gln  
210

<210> 1096  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 1096  
Ile Arg His Glu Lys Lys Glu Arg Met Lys Glu Arg Lys Glu Lys Lys  
1 5 10 15  
Glu Arg Lys Glu Lys Gly Lys Lys Glu Arg Lys Glu Arg Lys Glu Arg  
20 25 30  
Lys Arg Glu Lys Glu Arg Arg Lys Arg Arg Lys Gly Ile Pro Gly Ile  
35 40 45  
Tyr His Cys Met Ser Lys Gly Arg Val Val Asp Arg His Ser  
50 55 60

<210> 1097  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1097  
Lys Lys His Trp Gly Met Leu Gln Asp Ile Gly Leu Gly Lys Asp Phe  
1 5 10 15  
Leu Ser Asn Thr Leu Lys Gly Gln Ala Thr Gln Ala Lys Met Xaa Xaa  
20 25 30  
Trp Xaa Xaa Xaa Xaa Leu Lys Asn Phe Tyr Thr Ala Lys Glu Thr Lys  
35 40 45

<210> 1098  
<211> 136  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1098  
Asn Ile Pro Leu Asp Ser Glu Thr His Asn Tyr Gln Ile Val Asn His  
1 5 10 15  
Asp Gln Lys Leu Leu Leu Ile Thr Ser Thr Thr Pro Gln Trp Lys Lys  
20 25 30

Asn Arg Val Thr Val Tyr Glu Tyr Asp Thr Arg Glu Asp Gln Trp Ile  
35 40 45

Asn Ile Gly Thr Met Leu Gly Leu Leu Gln Phe Asp Ser Gly Phe Ile  
50 55 60

Cys Leu Cys Ala Arg Val Tyr Pro Ser Cys Leu Glu Pro Gly Gln Ser  
65 70 75 80

Phe Ile Thr Glu Glu Asp Asp Ala Arg Ser Xaa Ser Ser Thr Glu Trp  
85 90 95

Asp Leu Asp Gly Phe Ser Glu Leu Asp Ser Glu Ser Gly Ser Ser Ser  
100 105 110

Ser Phe Ser Asp Asp Glu Val Trp Val Gln Val Ala Pro Gln Arg Asn  
115 120 125

Ala Gln Asp Gln Gln Gly Ser Leu  
130 135

<210> 1099

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1099

Arg His Glu Arg Lys Val Lys Lys Arg Lys Lys Glu Arg Asn Lys Gln  
1 5 10 15

Thr Lys Gln Leu Ala Tyr Ile Tyr Leu Leu Asn Thr Gly Arg Ser Ile  
20 25 30

His Asn Leu Thr Leu  
35

<210> 1100

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1100

Phe Gly Thr Arg Asp Thr Arg Val Lys Glu Arg Gly His Ala Val Ser  
 1 5 10 15

Glu Lys Leu Leu Gly Trp Lys Gly Gln Leu His Lys Gly Cys Ser  
 20 25 30

Cys Arg Gly Ser Pro Ala Ala Arg Cys Leu Leu Thr Val Pro Arg Leu  
 35 40 45

Ser Pro Asp Thr Glu Gly Cys Lys Gly Ser Leu Phe Leu Leu Ser Gly  
 50 55 60

Ile Gly Lys Leu Tyr His Leu Ser Leu Pro Thr Leu Thr Ser Ala Pro  
 65 70 75 80

Ala Thr Leu Ser Leu Trp Leu Leu Leu Thr Phe Ser Pro Leu Ile Phe  
 85 90 95

Ser Pro Asp Gln Val Leu Gly Xaa Ser  
 100 105

<210> 1101

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1101

Ser Gly Arg Thr Leu Val Leu Arg Leu Ala Tyr Val Ser Arg Thr Val  
 1 5 10 15

Thr Thr Met Ala Pro Glu Val Leu Pro Lys Pro Arg Met Arg Gly Leu  
 20 25 30

Leu Ala Arg Arg Leu Arg Asn His Met Ala Val Ala Phe Val Leu Ser  
 35 40 45

Leu Gly Val Ala Ala Leu Tyr Lys Phe Arg Val Ala Asp Gln Arg Lys  
 50 55 60

Lys Ala Tyr Ala Asp Phe Tyr Arg Asn Tyr Asp Val Met Lys Asp Phe  
 65 70 75 80

Glu Glu Met Arg Lys Ala Gly Ile Phe Gln Ser Val Lys  
 85 90

<210> 1102

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1102

Phe Gly Thr Ser Ala Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Gly  
1 5 10 15

Arg Asp Gly Val Ser Ser Arg Trp Leu Gly  
20 25

<210> 1103

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1103

Gly Ser Glu Ser Asn Arg Leu Lys Phe Lys Ser Ser Ser Ala Thr Trp  
1 5 10 15

Leu Met Leu Ser Glu Pro Gln Arg Pro Gln Leu Leu Asn Arg Gly Asn  
20 25 30

His Pro His Leu Ser Ser Phe Gly Arg Lys Leu Asn Glu Ile Tyr Trp  
35 40 45

Gly Ser Arg  
50

<210> 1104

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1104

Lys	Arg	Tyr	Ser	Val	Leu	Ile	Leu	Cys	Lys	Lys	Xaa	Lys	Ser	Ser	Asn
1					5				10					15	

Cys	Phe	Pro	Met	Xaa	Lys	Ile	Thr	Met	Ser	Cys	Ile	Met	Leu	Leu	Ser
			20					25						30	

Phe	Tyr	Val	Asn	Ile	Ser	Tyr	Xaa	Ser	Ser	Ile	Lys	Xaa	Ile	Tyr
		35						40					45	

&lt;210&gt; 1105

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1105

Leu	Leu	Lys	Leu	Cys	Asn	Leu	Gln	Asn	Ile	Ala	Ile	Lys	Leu	His	Thr
1				5					10					15	

Met	Phe	Ser	Ile	Ile	Leu	Ile	Asp	Leu	Pro	Tyr	Lys	His	Leu	Asn	Lys
			20					25						30	

Lys	Tyr	Tyr	Leu	Met	Ile	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		35					40						45		

Lys	Lys	Lys	Lys	Lys	Arg	Glu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		50				55						60			

Xaa	Gly	Gly	Gly	Xaa	Lys	Lys	Lys
65					70		

<210> 1106  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1106  
Gly Leu Ser His Ser Asn Ser Ser Tyr Leu Glu Pro Leu Gly Ser Asp  
1 5 10 15  
Val Asp Arg Ala Asn Val Lys Phe Thr Glu Asn Thr Cys Val Phe Arg  
20 25 30  
Thr Leu Lys Gly Thr Ile Arg Ala Cys Phe Pro Ser Leu Tyr Met His  
35 40 45  
Ile Phe Gly Ile Ser Xaa Gly Leu Xaa Asp Val Val Ile Xaa Asn Thr  
50 55 60  
Ala Arg Met Xaa Ala Val Leu Ile His Xaa Gln Lys Arg Gly Gly  
65 70 75

<210> 1107  
<211> 91  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1107

Ile Ile Ala Ala Leu Ser Pro Ile Gln Ile Leu Pro Ser Asp Gly Lys  
1 5 10 15

Asp Gln Phe Ser Cys Gly Asn Ser Val Ala Asp Gln Ala Phe Leu Asp  
20 25 30

Ser Leu Ser Ala Ser Thr Ala Gln Xaa Ser Ser Ser Ala Ala Ser Asn  
35 40 45

Asn His Gln Val Arg Leu Thr Ser Ser Phe Trp Met Trp Leu Ala Leu  
50 55 60

Arg Lys Thr Glu Arg Ile Cys Xaa Arg Leu Val Met His Tyr Ser Tyr  
65 70 75 80

Cys His Ser Pro Lys Ala Lys Thr Lys Ser Leu  
85 90

<210> 1108

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1108

Glu	Val	Ile	Lys	Val	Met	Asn	Thr	Cys	Gln	Cys	Ser	Gly	Phe	Thr	Pro
1				5					10					15	

Val	Leu	Gln	His	Phe	Gly	Glu	Ala	Lys	Ala	Gly	Arg	Ser	Phe	Glu	Pro
			20					25						30	

Gln	Asp	Xaa	Gly	Thr	Thr	Xaa	Gly	Asn	Ile	Val	Arg	Pro	Xaa	Val
		35					40						45	

<210> 1109

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1109

Trp Asn His Leu His Asp Leu Arg Val Ser Arg Asp Leu Leu Ser Arg  
1 5 10 15

Ile Leu Lys Glu His Tyr Lys Phe Arg Glu Lys Ile Asn Ile Leu Ile  
20 25 30

Ile Leu Lys Leu Arg Asn Phe Ser Ser Leu Arg Gly His Lys Val Phe  
35 40 45

Val Val Tyr Thr Ser Asn Lys Ser Ser Ile Phe Xaa Asn Xaa Trp Xaa  
50 55 60

Glu Xaa Xaa Trp Tyr Val Lys Lys Arg Pro Xaa Pro Xaa Gly  
65 70 75

<210> 1110

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1110

Thr Trp Ser Leu His Lys Ile Gln Lys Leu Arg Trp Ala Trp Trp Cys  
1 5 10 15

Val Pro Ile Val Pro Leu Leu Val Gly Leu Arg Gln Glu Xaa His Leu  
20 25 30

Ser Pro Gly Gly Arg Gly Tyr Ser Xaa Pro Arg Val His Tyr Cys Thr  
35 40 45

Pro Ala Arg Ala Arg Glu Arg Asp Pro Val Ser Ile Asn Lys  
50 55 60

&lt;210&gt; 1111

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1111

Phe Met Asn Leu Phe Pro Gly Lys Pro Tyr Asp Ser Thr Val Lys Gly  
1 5 10 15

Val Arg Ile Val Lys Met Val Phe Ser Asp Gln Val Cys Ala His Ala  
20 25 30

Trp Pro Trp Ile Asp Ser Glu Met Arg Phe Phe Val  
35 40

&lt;210&gt; 1112

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1112

Gly Arg Ala Ile Met Ala Ala Ser Arg Leu Glu Leu Asn Leu Val Arg  
1 5 10 15

Leu Leu Xaa Arg Cys Glu Ala Met Ala Ala Glu Lys Arg Asp Pro Asp  
20 25 30

Glu Trp Arg Leu Glu Lys Tyr Val Gly Ala Leu Glu Asp Met Leu Gln  
35 40 45

Ala Leu Lys Val His Ala Ser Lys Pro Ala Ser Glu Val Ile Asn Glu  
50 55 60

Tyr Ser Trp Lys Val Asp Phe Leu Lys Gly Met Leu Gln Ala Glu Lys  
65 70 75 80

Leu Thr Ser Ser Ser Glu Lys Ala Leu Ala Asn Gln Phe Leu Ala Pro  
85 90 95

Gly Arg Val Pro Thr Thr Ala Arg Glu Arg Val Pro Ala Thr Lys Thr  
100 105 110

Val His Leu Gln Ser Arg Ala Arg Tyr Thr Ser Glu Met Arg Ser Glu  
115 120 125

Leu Leu Gly Thr Asp Ser Ala Glu Pro Glu Met Asp Val Arg Lys Arg  
130 135 140

Thr Gly Val Ala Gly Ser Gln Pro Val Ser Glu Lys Gln Ser Ala Ala  
145 150 155 160

Glu Leu Asp Leu Val Leu Gln Arg His Gln Asn Leu Gln Glu Lys Leu  
165 170 175

Ala Glu Glu Met Leu Gly Leu Ala Arg Ser Leu Lys Thr Asn Thr Leu  
180 185 190

Ala Ala Gln Ser Val Ile Lys Lys Asp Asn Gln Thr Leu Ser His Ser  
195 200 205

Leu Lys Met Ala Asp Gln Asn Leu Glu Lys Leu Lys Thr Glu Ser Glu  
210 215 220

Arg Leu Glu Gln His Thr Gln Lys Ser Val Asn Trp Leu Leu Trp Ala  
225 230 235 240

Met Leu Ile Ile Val Cys Phe Ile Phe Ile Ser Met Ile Leu Phe Ile  
245 250 255

Arg Ile Met Pro Lys Leu Lys  
260

<210> 1113

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113

Xaa Ala Xaa Xaa Xaa Trp Pro Pro Pro Lys Gly Asn Lys Ser Trp Ser  
1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys  
20 25 30

Arg Gln Lys Gly Xaa Phe Lys Ile  
35 40

<210> 1114

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114

Arg Lys Arg Leu Ala Phe Trp Thr Thr Gly Ile Arg Asp Trp Leu Thr  
1 5 10 15

Trp Arg Thr His Ser Val Cys Ala Glu Xaa Arg Ala Leu Thr Ser Ala  
20 25 30

Glu Ala Glu Val Gly Ala Cys Pro Arg Gly Leu Thr Arg Phe Ala Ser  
35 40 45

Arg Pro Gln Pro Leu His Leu Leu Lys Ala Gln Glu Met Ile Arg Leu  
50 55 60

Lys His Pro Pro Ile Leu Leu Phe Cys Leu Gly Trp Lys Thr Trp Pro  
65 70 75 80

Arg Ser Trp Arg Pro Leu Leu His Leu Pro Asp Ser Gln Glu Ser Ser  
85 90 95

Asp Gln Ser Cys Arg Thr Leu Leu Leu Pro Leu Ala Leu Leu Pro Phe



100 105 110  
Ser Ser Ser Trp Gly Pro Ser Leu Val Pro His Ser Leu  
115 120 125  
  
<210> 1115  
<211> 109  
<212> PRT  
<213> Homo sapiens  
  
<400> 1115  
Ile Asp Lys Arg Val Pro Cys Asn Gln Leu Lys Ser Val Leu Cys Val  
1 5 10 15  
Cys Phe Val Ser Gly Ala Glu Tyr Asp Asn Leu Pro Thr Val Pro Leu  
20 25 30  
Phe Glu Val Gly Leu Ala Leu Glu Ser Tyr Cys Lys Cys Leu Ala Cys  
35 40 45  
Met Ile Val Pro Gly His Pro Thr Leu Glu Phe Ala Pro Ser Cys Phe  
50 55 60  
Ser Glu Asp Ala Val Asn Arg Phe Arg Phe Tyr Cys Leu Trp Ile Trp  
65 70 75 80  
Gly Val Thr Val Ala Leu Phe Thr Phe Leu Ile Lys Ile His Met Lys  
85 90 95  
Thr Arg Lys Lys Trp Leu Phe Leu Pro Arg Leu Cys Thr  
100 105

<210> 1116  
<211> 42  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1116

Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile  
1 5 10 15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser  
20 25 30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser  
35 40

&lt;210&gt; 1117

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1117

Lys Xaa Ala Thr Pro Arg Pro Pro Gly Glu Thr Arg Pro Arg Met Pro  
1 5 10 15

Arg Leu Phe Leu Phe His Leu Leu Glu Phe Cys Leu Leu Leu Asn Gln  
20 25 30

Phe Ser Arg Ala Val Ala Ala Lys Trp Lys Asp Asp Val Ile Lys Leu  
35 40 45

Cys Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile Leu Gly  
50 55 60

&lt;210&gt; 1118

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1118

Pro Ser Val Glu Trp Glu Gln Gly His Ser Glu Arg Ala Glu Ser Pro  
1 5 10 15  
His Pro Pro Thr Leu Gln Gln Ala Ala Ala Gly Arg Leu Val Asn Cys  
20 25 30  
Arg Ala Gly Thr Gln Gln Gln Ala Ala Gly Thr Pro Xaa Leu Leu Gln  
35 40 45  
Leu Met Ala Val Cys Leu Ser Gln Asp Leu Glu Lys Thr Arg Leu Val  
50 55 60  
Tyr Glu Arg Ile Thr Ile Gly Thr Leu Phe Met Ser Phe Met Asn Xaa  
65 70 75 80

&lt;210&gt; 1119

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

Thr Gln Gln Ser Val Pro Val Ile Val His Pro Gly Val Ala Leu Leu  
1 5 10 15  
Ile Pro Ser Gly Met Tyr Leu Pro Ser Glu Leu His Phe Phe Lys Met  
20 25 30  
Leu Trp Val Val Gly Trp Glu Thr Ile Leu Gln Pro Ser Ser Asp Leu  
35 40 45  
Ile Asn Ser Leu Arg Asp Cys Lys Ala Glu Ser Thr Ser Gly His Ser  
50 55 60  
Trp Glu Thr Asp Pro Leu Val Met Lys  
65 70

&lt;210&gt; 1120

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1120  
Thr Ser Ser Ser Tyr Ser Asp Lys Gln Asp Thr Pro Pro His Pro Thr  
1 5 10 15  
Cys Ser Ile Ser Leu Ser Pro Leu Pro Gln Thr His Leu His Cys Ser  
20 25 30  
Ser Cys Arg Gly Ser Arg Lys Xaa Ile Leu Lys Ile Thr Arg Val Gly  
35 40 45  
Xaa Gly Ala Val Xaa Ser Gly Cys Xaa Xaa Gln His Phe Gly Xaa Gly  
50 55 60  
Pro Gly Lys Ala Val His Phe Gly Val Lys Gly Phe Leu  
65 70 75

<210> 1121  
<211> 66  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1121

Pro Xaa Leu Tyr Tyr Val Lys Leu Pro Ile Lys Tyr Phe Tyr Asp Tyr  
1 5 10 15

Arg Phe Cys Ile Phe Val Tyr Asn Tyr Leu Lys Ser Phe Met Leu Tyr  
20 25 30

Leu Glu Phe Gln Pro Arg Asn His Thr Val Leu Lys Phe Ser Trp Gly  
35 40 45

Leu Leu Leu Ser Leu Asn His Leu Leu Asn Ile Tyr Leu Pro Lys Gly  
50 55 60

Asp Phe  
65

&lt;210&gt; 1122

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1122

Ser Gln His Phe Gly Asn Ala Glu Val Ser Gly Ser Pro Glu Val Arg  
1 5 10 15

Ser Ser Arg Pro Ala Trp Ala Asn Met Val Lys Pro His Phe Leu Leu  
20 25 30

Lys Lys Lys Lys Leu Gly Gly Gly Xaa  
35 40

&lt;210&gt; 1123

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1123

Lys Lys Lys Lys Gly Cys Thr Lys Ile Ser Phe Xaa Gln Arg Leu Xaa  
1 5 10 15

Lys Arg Lys Lys Lys Arg Asn Thr Cys Val Leu Lys Thr Ile Cys Ile  
20 25 30

Phe Ser Phe Leu Asp His Thr Val Ala Asn Tyr Cys Tyr  
35 40 45

&lt;210&gt; 1124

&lt;211&gt; 227

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1124

Arg Leu Pro Arg Asn Ile Thr Pro Glu Trp Leu Gln Pro Arg Arg Pro  
1 5 10 15

Gly Val Pro Cys Phe Trp Ile Gln Phe Ser Xaa Val His Gly Phe Pro  
20 25 30

Lys Glu Trp Ser Cys Xaa Phe Phe Gly Ile Val Asn Ile Leu Leu Lys  
35 40 45

Tyr Gly Ala Gln Ile Asn Glu Leu His Leu Ala Tyr Cys Leu Lys Tyr  
50 55 60

Glu Lys Phe Ser Ile Phe Arg Tyr Phe Leu Arg Lys Gly Cys Ser Leu

[illegible]

```
<210> 1125
<211> 74
<212> PRT
<213> Homo sapiens
```

```

<400> 1125
Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys
 1               5               10               15
Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val
      20               25               30
Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile
      35               40               45
Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu
      50               55               60

```

Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr  
65 70

<210> 1126  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1126  
Ile Ser Ser Thr Pro Ser Leu Thr Gln Ile Leu Val Phe Ile Met Asp  
1 5 10 15  
Phe Phe Phe Lys Leu Val Tyr Leu Ile Leu Ser Phe His Phe Trp Gln  
20 25 30  
His Met Asp Asp Phe Ile Phe Asn Asn His Ile Ser  
35 40

<210> 1127  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1127  
Leu Ser Pro Phe Glu Ala Ser Thr Asp Trp Xaa Lys Gln Ile Xaa Lys  
1 5 10 15  
Trp Asp Val Thr Gly Leu Ile Ser Thr Asn Arg Leu Phe Thr Thr Pro  
20 25 30  
Ser Trp Xaa Pro Val Ser



35

&lt;210&gt; 1128

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

Gly Thr Glu Cys Thr His Gly Lys Lys Pro Cys Phe Val Phe Cys Ser  
1 5 10 15

Leu Phe Phe Leu Ser Pro Phe Leu Ser Phe Met Ala Gly Asp Met Ile  
20 25 30

Tyr Cys Ser His Pro Ser Trp Gly Leu Ile His His Thr Arg Val Ala  
35 40 45

Arg Arg Leu Trp Gln Gln Leu Phe Ala Leu Asn Gln Thr Glu Lys Leu  
50 55 60

Ser Ile Ile Lys Gly Arg  
65 70

&lt;210&gt; 1129

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

His Leu Pro Leu Ser Glu Thr His Ser Pro Ile Leu Asn Ala Tyr Ala  
1 5 10 15

Val Gly Tyr His Leu Pro Leu Glu Val Leu Glu Ala Ile Ser Cys Arg  
20 25 30

Ser Arg Val Ala Met Gly Leu Asn Tyr Tyr Tyr Pro Pro Lys Met Leu  
35 40 45

Cys Leu  
50

&lt;210&gt; 1130

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

Phe Val Lys Gly Val Asn Cys Leu Ile Tyr Leu Thr Arg Phe Phe Lys  
 1 5 10 15  
 Gln Ile Leu Ile Gly His Ala Leu His Ala Arg Leu Trp Ala Trp Tyr  
 20 25 30  
 Leu Arg Val Leu Thr Gly Glu Ala Gly Ser Gly Asn Lys His Met Cys  
 35 40 45  
 Asn Cys Cys Val Asp Ser Leu Ile Gly Arg Lys Ser Ala Asn Lys Glu  
 50 55 60  
 Ala Asp Lys Leu Glu Asn Glu Arg Lys Val Met Cys  
 65 70 75

&lt;210&gt; 1131

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1131

Thr Pro Tyr Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr  
 1 5 10 15  
 Tyr Ser Lys Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr  
 20 25 30  
 Leu Leu Asp Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser  
 35 40 45  
 Gly Thr Ala Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser  
 50 55 60  
 Cys Gln Arg Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu  
 65 70 75 80  
 Val Ser Leu Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp  
 85 90 95  
 Leu Thr Pro Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys  
 100 105 110  
 Ala Asn L u Ile Lys Ile Leu Ala Gln  
 115 120

&lt;210&gt; 1132

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1132

Lys	Thr	Arg	Gly	Lys	Leu	Asp	Lys	Glu	Pro	Arg	Pro	Thr	Gly	Val	Cys
1				5					10					15	

Cys	Leu	Gln	Glu	Thr	His	Leu	Thr	Cys	Gly	Gly	Ile	His	Arg	Leu	Lys
			20					25					30		

Ile	Lys	Glu	Trp	Arg	Lys	Ile	Phe	Gln	Ala	Asn	Gly	Lys	Gln	Lys	Lys
		35					40					45			

Ala	Gly	Val	Ala	Leu	Leu	Leu	Ser	Asp	Lys	Thr	Xaa	Xaa	Ala	Xaa
	50					55					60			

&lt;210&gt; 1133

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1133

Pro	Ser	Gln	Val	Ser	Leu	Asn	His	Pro	Asp	Asp	Leu	Pro	Val	Glu	Arg
1				5					10					15	

Ser	Tyr	Pro	Ser	Gln	Val	Tyr	Phe	Leu	Met	Arg	Thr	Gly	His	Ser	Trp
			20					25					30		

Asp Asp Leu Pro Ala Glu Arg Ser Asp Ile Phe Trp Val Xaa  
35 40 45

```
<210> 1134
<211> 65
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 1134
Asn Ser Ala Arg Glu Val Ile Tyr Met Ile His Ser Gln Glu Leu Leu
 1             5             10            15
```

Asp Arg Lys Xaa Gln Gly Pro Gln Pro Leu Cys Pro Leu Tyr Pro Gln  
20 25 30

Met Ala Leu Gly Ile Asn Ser Ser Gly Ile Ala Leu Lys Asn Ser Ala  
35 40 45

Ser Cys Phe Ala Glu Cys His Gly His Val Ile Leu Arg Ser His Asn  
50 55 60

Thr  
65

```
<210> 1135
<211> 30
<212> PRT
<213> Homo sapiens
```

```

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

```

<400> 1135  
Ser Cys Val Arg Gly Asn Leu Glu Pro Tyr Ile Asn Thr Tyr Ile Ile  
1 5 10 15

Lys Gly Lys Ile Leu Lys Val Asn Gly Xaa Lys Ala Ser Ile  
20 25 30

<210> 1136  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids..

<400> 1136  
Pro Glu Ser Arg His Ile Leu Val Cys Thr Gln Leu Trp Ala Lys Xaa  
1 5 10 15  
Arg Trp Arg His Leu Ser Ser His Ala Glu Leu His Ser Arg Leu Arg  
20 25 30  
Thr Trp Val Gly Ser Ser Lys Val Ile Ala Lys Ala Pro Leu Ser Gly  
35 40 45  
Gly Tyr Thr  
50

<210> 1137  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1137  
Ser Arg Leu Ser Phe Gln Asp Leu Ala Pro Ala Leu Gly Met Val Gly  
1 5 10 15

Gly Lys Ala Lys Asn Leu Gly Ser Xaa Xaa Pro Trp Ala Leu Lys Asn  
                   20                  25                  30

Val Val Leu Phe Lys Glu Gln Gly Ser Xaa Gln Gly Cys Phe Trp Gly  
           35                  40                  45

<210> 1138

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1138

Lys Met Cys Leu Phe Gln Leu Ser Gln Xaa Gly Asn Val Thr Gly Ile  
   1                  5                  10                  15

Arg Trp Val Lys Ala Arg Asp Ala Ala Arg His Ser Thr Val His Arg  
           20                  25                  30

Thr Thr Pro Thr Thr Lys Asn Tyr Leu Ala Gln Asn Val Asn Asn Ala  
           35                  40                  45

Glu Val Glu Lys Xaa  
       50

<210> 1139

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1139

Ile Gly Phe Gly His Asp Thr Asp Phe Leu Glu Ala Arg Cys Cys Phe  
1 5 10 15

Xaa Ser Gly Met Gly Val His Asp Cys Pro Glu Gln Pro Arg Ser Gln  
20 25 30

Phe Phe Arg Arg Leu Ser Ala Ile Ser Ala Gln Ala Phe Thr Gly Gln  
35 40 45

Gly Gln Lys Gln Leu Xaa Gly Val Gly Gly Ala Ser Ser Thr Ala Ala  
50 55 60

Trp Pro Gln Glu Ile Gly Cys Ser Ser Ser Ser Ala Cys Gly Met Val  
65 70 75 80

Arg Asn Asn Leu Gly Gly  
85

&lt;210&gt; 1140

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1140

Ile Lys Lys Tyr Ile Phe His Phe Tyr Phe Ile Xaa Asn His Asn Tyr  
1 5 10 15

Leu Leu Arg Arg Cys Met His Leu Leu Asp Thr Val Gln Leu Leu Thr  
20 25 30

Trp Asn Glu Ile Gly His Cys Cys Pro His Phe Leu Leu His Val Gly  
35 40 45

Val His Ile Val Leu Asp Phe Leu Ser Asp Gly Leu Glu Asn Pro Val  
50 55 60

Ser Gln Lys Tyr Glu Ile Ile Arg Arg Ile Ile Val Gln Ser Tyr Val  
65 70 75 80

Glu Arg Met Asn Tyr Leu Thr Ser Ser Ser Arg Asp Val  
85 90

<210> 1141

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1141

Lys Ile Ile Ile Phe Ser Val Val His Asn Asn Val Leu Asn Ile Leu  
1 5 10 15

Leu Ile Lys Gly Ala Met Ser Leu Cys Met Val Leu Asn Val Ser Cys  
20 25 30

Val Pro Phe Ala Gln Leu Arg Ile Leu Gln Leu Gly Phe Asn Glu Trp  
35 40 45

Gly His Gly Ile Ile Met Gly Xaa Cys Lys Lys Xaa Lys Arg Gly  
50 55 60

<210> 1142

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 1142

Phe Cys Val Glu Leu Ile Ser Gln Cys Arg Gly Lys Asn Ser Leu Gly  
1 5 10 15

Ser Ser Leu Asp Ile Thr Val His Arg Ala Ser His Gln Asp Asp Pro  
20 25 30

Thr Phe Tyr Gly Gly Pro Gly Ile Gly Ser Pro Glu Pro Ile Thr Gln  
35 40 45

Xaa Pro Ser Asp Gly Trp Gly Xaa Trp  
50 55

&lt;210&gt; 1143

&lt;211&gt; 203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1143

Ala Leu Ala Leu Cys Gln Cys Gly Val Pro Ala Cys Ser His Val Pro  
1 5 10 15

Met Trp Ser Ala Arg Leu Leu Met Cys Pro Cys Gly Val Pro Ala Cys  
20 25 30

Ser His Met Xaa Met Arg Ser Ala Xaa Leu Leu Thr His Ala His Val  
35 40 45

Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro Ala Cys Ser  
50 55 60

His Thr Cys Pro Cys Gly Val Pro Thr Cys Ser Cys Ala His Val Glu  
65 70 75 80

Cys Pro Pro Ala His Met Cys Arg Cys Gly Val Pro Pro Ala His Thr  
85 90 95

Arg Ala His Val Glu Cys Pro Pro Ala His Xaa Cys Arg Cys Gly Val  
100 105 110

Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu Thr Arg  
115 120 125

Ala Asp Ala Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro  
130 135 140

Ala Cys Ser His Val Pro Thr Arg Ser Ala Arg Leu Leu Thr Arg Ala  
145 150 155 160

Asp Ala Glu Cys Pro Pro Ala His Thr Cys Xaa Arg Gly Xaa Pro Ala  
165 170 175

Cys Ser His Xaa Pro Thr Arg Xaa Ala Arg Leu Leu Thr Xaa Ala His  
180 185 190

Val Glu Cys Arg Leu Leu Thr Leu Pro Met Trp  
195 200

<210> 1144  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144  
 Lys Val Leu Leu Pro Tyr Leu Cys Ser Ser Phe Pro Met Ala Glu Phe  
   1                  5                  10                  15  
 Cys Asn Tyr Ile Gln Asn Ile Val Tyr Ile Leu Phe Leu Lys Leu Tyr  
                   20                  25                  30  
 Tyr Ile Gly Trp Ile Leu Leu Xaa Trp Gly Thr Gly Ala Tyr Ile Gln  
           35                  40                  45  
 Gly Ser Phe Leu Ser Thr Cys Leu Ser Thr Ile Cys Cys Val  
       50                  55                  60

<210> 1145  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1145  
 Asn Glu Ser Leu Thr Gln Phe His Ala Thr Phe Cys Leu Phe Ser Lys  
   1                  5                  10                  15  
 Glu Arg Leu Leu Gly Leu Ser Val Thr Arg His Val Trp Ile Ala Ser  
           20                  25                  30  
 His Ile His Ile Met Pro Gly Ser Pro Gln Pro Thr His Val Leu Glu  
       35                  40                  45  
 Val Ala Thr Cys Gln Val Ser Val Phe Ser Leu Asn Ser Lys Trp Val  
       50                  55                  60  
 Asn His Met Asn Ser Thr Gly Pro Cys Glu Asn Gly Val Lys Ala Ser  
       65                  70                  75                  80  
 Phe Val Pro Phe Ser Ile Ser Leu Thr His Met Cys Ser Leu Ser Thr  
           85                  90                  95  
 Ala Glu Asp Arg Phe Val Cys Ala Leu  
       100                  105

<210> 1146  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (240)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1146

Lys Glu Thr Leu Glu Thr Ile Ser Asn Glu Glu Gln Thr Pro Leu Leu  
 1 5 10 15

Lys Lys Ile Asn Pro Thr Glu Ser Thr Ser Lys Ala Glu Glu Asn Glu  
 20 25 30

Lys Val Asp Ser Lys Val Lys Ala Phe Lys Lys Pro Leu Ser Val Phe  
 35 40 45

Lys Gly Pro Leu Leu His Ile Ser Pro Ala Glu Glu Leu Tyr Phe Gly  
 50 55 60

Ser Thr Glu Ser Gly Glu Lys Lys Thr Leu Ile Val Leu Thr Asn Val  
 65 70 75 80

Thr Lys Asn Ile Val Ala Phe Lys Val Arg Thr Thr Ala Pro Glu Lys  
 85 90 95

Tyr Arg Val Lys Pro Ser Asn Ser Ser Cys Asp Pro Gly Ala Ser Val  
 100 105 110

Asp Ile Val Val Ser Pro His Gly Gly Leu Thr Val Ser Ala Gln Asp  
 115 120 125

Arg Phe Leu Ile Met Ala Ala Glu Met Glu Gln Ser Ser Gly Thr Gly  
 130 135 140

Pro Ala Glu Leu Thr Gln Phe Trp Lys Glu Val Pro Arg Asn Lys Val  
 145 150 155 160

Met Glu His Arg Leu Arg Cys His Thr Val Glu Ser Ser Lys Pro Asn  
 165 170 175

Thr Leu Thr Leu Lys Asp Asn Ala Phe Asn Met Ser Asp Lys Thr Ser  
 180 185 190

Glu Asp Ile Cys Leu Gln Leu Ser Arg Leu Leu Glu Ser Asn Arg Lys

195                                      200                                      205  
 Leu Glu Asp Gln Val Gln Arg Cys Ile Trp Phe Gln Gln Leu Leu Leu  
     210                                      215                                      220  
 Ser Leu Thr Met Leu Leu Leu Ala Phe Val Thr Ser Phe Phe Tyr Xaa  
     225                                      230                                      235                                      240

Leu Tyr Ser

<210> 1147  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1147  
 Ser Val Lys Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe  
     1                                      5                                      10                                      15  
 Leu Tyr His Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser  
             20                                      25                                      30  
 Gly Thr Ile Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val  
             35                                      40                                      45  
 Ile Ser His Ser Asn Gln Glu Ser Arg Glu  
             50                                      55

<210> 1148  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148  
 Xaa Xaa Asn Gly Leu Gly Ser Val Lys Asp Gly Glu Pro His Phe Val  
     1                                      5                                      10                                      15

Val Val His Cys Thr Gly Tyr Ile Lys Ala Trp Pro Gln Gln Val Phe  
                   20                  25                  30

Pro Ser Gln Met Met Thr Gln Pro Glu Val Phe Gln Glu Met Leu Ser  
                   35                  40                  45

Met Leu Gly Asp Gln Ser Asn Ser Tyr Asn Asn Glu Glu Phe Pro Asp  
                   50                  55                  60

Leu Thr Met Phe Pro Pro Phe Ser Glu  
                   65                  70

<210> 1149

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149

Val Lys Trp Val Val Ser Phe Asn Ile Gln Asn Asn His Met Xaa Tyr  
           1                  5                  10                  15

Xaa Leu Pro Leu Ser Phe Pro Phe Val Gln Met Arg Lys Val Arg Leu  
                   20                  25                  30

Thr Glu Val Asn Trp Pro Arg Val Pro Gln Leu Val Ser Ala Glu Val  
                   35                  40                  45

Gly Xaa His Asn Gln Ile Cys Ser Ala Xaa Asn Leu Cys Gln Ile Ser

50

55

60

Ser Lys Val Leu Gln Arg Ala Arg His Val Tyr Phe Ile Pro Ile  
 65 70 75

&lt;210&gt; 1150

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1150

His Ser Glu Ile Gln Ser Val Cys Leu Thr Arg Leu Phe Asp Phe Lys  
 1 5 10 15

Ile Phe Cys Arg Lys Cys Phe Glu Asn Phe Glu Tyr Leu Lys Met Ala  
 20 25 30

Gly Val Val Leu His Phe Ala Ser Cys Ser Asp Thr Leu Phe Tyr Leu  
 35 40 45

Tyr Arg Tyr Ser Glu Phe Leu Phe Phe Ser Thr Cys Cys Thr Leu Ser  
 50 55 60

Lys Ala Lys Arg Lys Leu Ile Leu Gly Ser Arg Lys Ala Glu Ala Phe  
 65 70 75 80

Gly Glu Met Glu Thr Arg Met Cys Lys Asn Glu Thr Thr Thr Ser Arg  
 85 90 95

Ile Lys Lys Lys Lys Cys Gln Ser Ser Arg Val Leu Ser Asp Val Gln  
 100 105 110

Glu Gly Gly Gly Ile Ile Phe Met Glu His Ile Leu Trp Asn Thr Ala  
 115 120 125

Ile Arg Met Ser Glu Lys Leu Ile Cys Ser  
 130 135

&lt;210&gt; 1151

&lt;211&gt; 489

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1151

Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg  
 1 5 10 15

Gly Xaa Arg Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe  
 20 25 30

Ala Val Val Gln Met Arg Lys Lys Trp Lys Met Gly Gly Met Lys Tyr  
 35 40 45

Ile Phe Ser Leu Leu Phe Phe Leu Leu Leu Glu Gly Gly Lys Thr Glu  
 50 55 60

Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp Lys Lys Tyr  
 65 70 75 80

Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr Gly Leu Val  
 85 90 95

Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser  
 100 105 110

Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro  
 115 120 125

His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro Pro Val Asn  
 130 135 140

Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln  
 145 150 155 160

His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn Arg Gln Pro  
 165 170 175

Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val Tyr Cys Gly  
 180 185 190

Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val Ser Val Pro  
 195 200 205

Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu Ser Trp Glu  
 210 215 220

His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg Glu Ala Arg  
 225 230 235 240

His Ser Tyr His Arg Ser His Tyr Asp Pro Pro Pro Ser Arg Gln Ala  
 245 250 255

Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg Gly Ala Leu



260	265	270
Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn 275 280 285		
Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr 290 295 300		
Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val 305 310 315 320		
Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys 325 330 335		
Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp 340 345 350		
Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe 355 360 365		
Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu 370 375 380		
Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu 385 390 395 400		
Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys 405 410 415		
Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe 420 425 430		
Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln 435 440 445		
Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser 450 455 460		
Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr 465 470 475 480		
Leu Glu Arg Ser Glu Lys Gly His Cys 485		

&lt;210&gt; 1152

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152

Ile Asn Phe Leu Thr Ile Gly Phe Tyr Gly Val Gly His Asn Phe Trp  
1 5 10 15

Leu Tyr Phe Lys Asn Phe Phe Leu Gly Gly Gly Val Leu Gly Ser Gly  
20 25 30

His Gln Gly Arg Gly Val Ala Trp Gly Xaa Asp Pro Gly Ala Ser Pro  
35 40 45

<210> 1153

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1153

Thr Ile Val Arg Asp Gly Ser Asn Asp Val Ile Cys Glu Asn Ser His  
1 5 10 15

His Leu Pro Val Arg Gln Asn Leu Leu Lys Pro Pro Glu Ser Asn Leu  
20 25 30

Asp Tyr Ile Arg Pro Phe Phe Thr His Lys Lys Ile Leu Tyr Gly Ile  
35 40 45

<210> 1154

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (314)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154

Ser Lys Lys Leu Thr Arg Pro Leu Val Met Lys Thr Gly Arg Pro Ala  
1 5 10 15

Gly Lys Gly Ser Ile Thr Ile Ser Ala Glu Glu Ile Lys Asp Asn Arg  
20 25 30

Val Val Leu Phe Glu Met Glu Ala Arg Lys Leu Asp Asn Lys Asp Leu  
35 40 45

Phe Gly Lys Ser Asp Pro Tyr Leu Glu Phe His Lys Gln Thr Ser Asp  
50 55 60

Gly Asn Trp Leu Met Val His Arg Thr Glu Val Val Lys Asn Asn Leu  
65 70 75 80

Asn Pro Val Trp Xaa Pro Phe Xaa Ile Ser Leu Asn Ser Leu Cys Xaa  
85 90 95

Gly Asp Met Asp Lys Thr Ile Lys Val Glu Cys Tyr Asp Tyr Asp Asn  
100 105 110

Asp Gly Ser His Asp Leu Ile Gly Thr Phe Gln Thr Thr Met Thr Lys  
115 120 125

Leu Lys Glu Ala Ser Arg Ser Ser Pro Val Glu Xaa Glu Cys Ile Asn  
130 135 140

Glu Lys Lys Arg Gln Lys Lys Lys Ser Tyr Lys Asn Ser Gly Val Ile  
145 150 155 160

Ser Val Lys Gln Cys Glu Ile Thr Val Glu Cys Thr Phe Leu Asp Tyr

[illegible]

```
<210> 1155
<211> 120
<212> PRT
<213> Homo sapiens
```

```

<400> 1155
Tyr Phe Ile Glu Gly Leu Cys Ala Lys Asn Tyr Ala Tyr Leu Tyr Ile
 1             5             10             15
Gly Gln Leu Ser Leu Ile Ile Tyr Leu Leu Lys Leu His Val Tyr His
      20             25             30
Ile Ser Leu Ser Gly His Ile Gln Cys His Val Asp Val Pro Leu Ser
      35             40             45

```

Phe Ile Glu Lys Leu Pro His Ser Pro Cys Leu Leu Phe Ser Ala Met  
50 55 60

Pro Gln Gly Ser Glu Leu Ser Thr Thr Asp Ser Cys Gly Phe Ser Glu  
65 70 75 80

Ala Ala His Cys Gln Gly Gln Ala Glu Arg Gly Pro Ala Cys Cys Gly  
85 90 95

Gly Cys Leu Ala Gln Met Ser Ile Tyr Leu Pro Pro Ser His Leu Ala  
100 105 110

Ser Cys Pro Leu Asp Met Cys Cys  
115 120

<210> 1156

<211> 469

<212> PRT

<213> Homo sapiens

<400> 1156

Gly Gly Trp Arg Trp Lys Leu Arg Glu Ser Gly Ala Ile Ala Pro Arg  
1 5 10 15

Asp Ser Gln Ser Arg Pro Leu Gln Ser Leu Arg Gln Leu Ala Leu Arg  
20 25 30

Val Gly Val Ala Pro Ala Ala Ala Met Ser Gly Gly Val Tyr Gly Gly  
35 40 45

Asp Glu Val Gly Ala Leu Val Phe Asp Ile Gly Ser Tyr Thr Val Arg  
50 55 60

Ala Gly Tyr Ala Gly Glu Asp Cys Pro Lys Val Asp Phe Pro Thr Ala  
65 70 75 80

Ile Gly Met Val Val Glu Arg Asp Asp Gly Ser Thr Leu Met Glu Ile  
85 90 95

Asp Gly Asp Lys Gly Lys Gln Gly Gly Pro Thr Tyr Tyr Ile Asp Thr  
100 105 110

Asn Ala Leu Arg Val Pro Arg Glu Asn Met Glu Ala Ile Ser Pro Leu  
115 120 125

Lys Asn Gly Met Val Glu Asp Trp Asp Ser Phe Gln Ala Ile Leu Asp  
130 135 140

His Thr Tyr Lys Met His Val Lys Ser Glu Ala Ser Leu His Pro Val  
145 150 155 160

Leu Met Ser Glu Ala Pro Trp Asn Thr Arg Ala Lys Arg Glu Lys Leu  
165 170 175

Thr Glu Leu Met Phe Glu His Tyr Asn Ile Pro Ala Phe Phe Leu Cys  
180 185 190

Lys Thr Ala Val Leu Thr Ala Phe Ala Asn Gly Arg Ser Thr Gly Leu  
195 200 205

Ile Leu Asp Ser Gly Ala Thr His Thr Thr Ala Ile Pro Val His Asp  
210 215 220

Gly Tyr Val Leu Gln Gln Gly Ile Val Lys Ser Pro Leu Ala Gly Asp  
225 230 235 240

Phe Ile Thr Met Gln Cys Arg Glu Leu Phe Gln Glu Met Asn Ile Glu  
245 250 255

Leu Val Pro Pro Tyr Met Ile Ala Ser Lys Glu Ala Val Arg Glu Gly  
260 265 270

Ser Pro Ala Asn Trp Lys Arg Lys Glu Lys Leu Pro Gln Val Thr Arg  
275 280 285

Ser Trp His Asn Tyr Met Cys Asn Cys Val Ile Gln Asp Phe Gln Ala  
290 295 300

Ser Val Leu Gln Val Ser Asp Ser Thr Tyr Asp Glu Gln Val Ala Ala  
305 310 315 320

Gln Met Pro Thr Val His Tyr Glu Phe Pro Asn Gly Tyr Asn Cys Asp  
325 330 335

Phe Gly Ala Glu Arg Leu Lys Ile Pro Glu Gly Leu Phe Asp Pro Ser  
340 345 350

Asn Val Lys Gly Leu Ser Gly Asn Thr Met Leu Gly Val Ser His Val  
355 360 365

Val Thr Thr Ser Val Gly Met Cys Asp Ile Asp Ile Arg Pro Gly Leu  
370 375 380

Tyr Gly Ser Val Ile Val Ala Gly Gly Asn Thr Leu Ile Gln Ser Phe  
385 390 395 400

Thr Asp Arg Leu Asn Arg Glu Leu Ser Gln Lys Thr Pro Pro Ser Met  
405 410 415

Arg Leu Lys Leu Ile Ala Asn Asn Thr Thr Val Glu Arg Arg Phe Ser  
 420 425 430

Ser Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Gly Thr Phe Gln Gln  
 435 440 445

Met Trp Ile Ser Lys Gln Glu Tyr Glu Glu Gly Gly Lys Gln Cys Val  
 450 455 460

Glu Arg Lys Cys Pro  
 465

<210> 1157

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1157

Thr Ala Leu Cys Pro Arg Ile His Glu Val Pro Leu Leu Glu Pro Leu  
 1 5 10 15

Val Cys Xaa Lys Ile Ala Gln Glu Arg Leu Thr Val Leu Leu Phe Leu  
 20 25 30

Glu Asp Cys Ile Ile Thr Ala Cys Gln Glu Gly Leu Ile Cys Thr Trp  
 35 40 45

Xaa Arg Pro Gly Lys Ala Phe Thr Asp Glu Glu Thr Glu Ala Gln Thr  
 50 55 60

Gly Glu Gly Ser Trp Pro Arg Ser Pro Ser Lys Ser Val Val Glu Gly  
 65 70 75 80

Ile Ser Ser Gln Pro Gly Asn Ser Pro Ser Gly Thr Val Val  
 85 90

<210> 1158

<211> 114  
<212> PRT  
<213> Homo sapiens

<400> 1158

Leu Ser Pro Gln Trp Thr His Leu Leu Val Lys Gly Ala Val Val Leu  
1 5 10 15

Cys Gly Ser Gln Phe Thr Ser Phe Pro Lys Ile Gln Cys Asp His Pro  
20 25 30

Val Asn Gly His Thr Ser Ser Glu Ile Asn Phe Gln Asn Leu Cys Ser  
35 40 45

Ser Ser Tyr Pro Leu Arg Val Ile Met Ala Asn Lys Gln Lys Ala Leu  
50 55 60

Val Gln Ala Pro Pro Asn Thr Leu Asn Leu Asn Leu Asn Met Leu Lys  
65 70 75 80

Phe Glu Asn Lys Glu Thr Phe Phe Ile Ser Leu Ser Gly Leu Ser Leu  
85 90 95

Val Leu Met Gly Leu Leu Met Ala Phe Gln Ser Val Ala Glu Ala Ile  
100 105 110

Ile Phe

<210> 1159  
<211> 155  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1159

Pro Trp Gly Ala Trp Arg Gln Gly Ala Arg Ala Ala Gln Ser Pro Phe  
1 5 10 15

Ser Ile Pro Asn Ser Ser Ser Val Pro Tyr Gly Ser Gln Asp Ser Val



	20		25		30
His Ser Ser Pro Glu Asp Gly Gly Gly Gly Xaa Asp Arg Xaa Gly Gly	35	40	45		
Thr Gly Gly Pro Arg Leu Val Ile Gly Ser Leu Pro Ala His Leu Ser	50	55	60		
Pro His Met Phe Gly Gly Phe Lys Cys Pro Val Cys Ser Lys Phe Val	65	70	75	80	
Ser Ser Asp Glu Met Asp Leu His Leu Val Met Cys Leu Thr Lys Pro	85	90	95		
Arg Ile Thr Tyr Asn Glu Asp Val Leu Ser Lys Asp Ala Gly Glu Cys	100	105	110		
Ala Ile Cys Leu Glu Glu Leu Gln Gly Asp Thr Ile Ala Arg Leu	115	120	125		
Pro Cys Leu Cys Ile Tyr His Lys Gly Cys Ile Asp Glu Trp Phe Glu	130	135	140		
Val Asn Arg Ser Cys Pro Glu His Pro Ser Asp	145	150	155		

&lt;210&gt; 1160

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (155)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1160

Cys Leu Gly Cys Lys Pro Asp Gln Pro Leu Arg Ala Glu Gly Arg Leu  
1 5 10 15

Leu Ala Pro Ser Gly Asn Pro Ala Pro Ser Pro Gly Ser Glu Arg Leu  
20 25 30

Ala Gly Asp Asp Thr Xaa Ser Ala Pro Ala Ala Pro Ser Xaa Gly Cys  
35 40 45

Gly Lys Arg Arg Glu Ser Asp Ala Gly Ala Gly Gly Glu Arg Ala Ser  
50 55 60

Val Arg Thr Gly Ser Gly Arg Arg Gly Gly Ala Asn His Gly Arg Gly  
65 70 75 80

Gln Arg Ala Asp Pro Ala Glu Pro Pro Ala Ala Gln Arg Arg Arg Ala  
85 90 95

Leu Pro Tyr Arg Arg His Gly Gly Thr Ala Ser Gly Lys Ser Ser Val  
100 105 110

Cys Ala Lys Ile Val Gln Leu Leu Gly Gln Asn Glu Val Asp Tyr Arg  
115 120 125

Gln Lys Gln Val Val Ile Leu Ser Gln Asp Ser Phe Tyr Arg Val Leu  
130 135 140

Thr Ser Glu Gln Lys Ala Lys Ala Leu Lys Xaa Gln Phe Asn Phe Asp  
145 150 155 160

His Pro Asp Ala Phe Asp Asn Glu Xaa Ile Leu Lys Thr Leu Lys Glu  
165 170 175

Ile Thr Glu Gly Lys Thr Val Gln Ile Pro Val Tyr Asp Phe Val Ser  
180 185 190

His Ser Arg Lys Glu Glu Thr Val Thr Val Tyr Pro Ala Asp Val Val  
195 200 205

Leu Phe Glu Gly Ile Leu Ala Phe Tyr Ser Gln Glu Val Arg Asp Leu  
210 215 220

Phe Gln Met Lys Leu Phe Val Asp Thr Asp Ala Asp Thr Arg Leu Ser  
225 230 235 240

Arg Arg Val Leu Arg Asp Ile Ser Glu Arg Gly Arg Asp Leu Glu Gln  
245 250 255

Ile Leu Ser Gln Tyr Ile Thr Phe Val Lys Pro Ala Phe Glu Glu Phe  
                   260                  265                  270

Cys Leu Pro Thr Lys Lys Tyr Ala Asp Val Ile Ile Pro Arg Gly Ala  
                   275                  280                  285

Asp Asn Leu Val Ala Ile Asn Leu Ile Val Gln His Ile Gln Asp Ile  
                   290                  295                  300

Leu Asn Gly Gly Pro Ser Lys Arg Gln Thr Asn Gly Cys Leu Asn Gly  
                   305                  310                  315                  320

Tyr Thr Pro Ser Arg Lys Arg Gln Ala Ser Glu Ser Ser Ser Arg Pro  
                   325                  330                  335

His

<210> 1161  
 <211> 330  
 <212> PRT  
 <213> Homo sapiens

<400> 1161  
 Ala Arg Gly Met Phe Gly Leu Gly Asn Glu Phe Lys Pro Leu Asn Val  
   1                  5                  10                  15

Gln Glu Arg Glu Ala Gln Phe Gly Thr Thr Ala Glu Ile Tyr Ala Tyr  
                   20                  25                  30

Arg Glu Glu Gln Asp Phe Gly Ile Glu Ile Val Lys Val Lys Ala Ile  
                   35                  40                  45

Gly Arg Gln Arg Phe Lys Val Leu Glu Leu Arg Thr Gln Ser Asp Gly  
                   50                  55                  60

Ile Gln Gln Ala Lys Val Gln Ile Leu Pro Glu Cys Val Leu Pro Ser  
                   65                  70                  75                  80

Thr Met Ser Ala Val Gln Leu Glu Ser Leu Asn Lys Cys Gln Ile Phe  
                   85                  90                  95

Pro Ser Lys Pro Val Ser Arg Glu Asp Gln Cys Ser Tyr Lys Trp Trp  
                   100                  105                  110

Gln Lys Tyr Gln Lys Arg Lys Phe His Cys Ala Asn Leu Thr Ser Trp  
                   115                  120                  125

Pro Arg Trp Leu Tyr Ser Leu Tyr Asp Ala Glu Thr Leu Met Asp Arg

130	135	140
Ile Lys Lys Gln Leu Arg Glu Trp Asp Glu Asn Leu Lys Asp Asp Ser		
145	150	155 160
Leu Pro Ser Asn Pro Ile Asp Phe Ser Tyr Arg Val Ala Ala Cys Leu		
	165	170 175
Pro Ile Asp Asp Val Leu Arg Ile Gln Leu Leu Lys Ile Gly Ser Ala		
	180	185 190
Ile Gln Arg Leu Arg Cys Glu Leu Asp Ile Met Asn Lys Cys Thr Ser		
	195	200 205
Leu Cys Cys Lys Gln Cys Gln Glu Thr Glu Ile Thr Thr Lys Asn Glu		
	210	215 220
Ile Phe Ser Leu Ser Leu Cys Gly Pro Met Ala Ala Tyr Val Asn Pro		
225	230	235 240
His Gly Tyr Val His Glu Thr Leu Thr Val Tyr Lys Ala Cys Asn Leu		
	245	250 255
Asn Leu Ile Gly Arg Pro Ser Thr Glu His Ser Trp Phe Pro Gly Tyr		
	260	265 270
Ala Trp Thr Val Ala Gln Cys Lys Ile Cys Ala Ser His Ile Gly Trp		
	275	280 285
Lys Phe Thr Ala Thr Lys Lys Asp Met Ser Pro Gln Lys Phe Trp Gly		
	290	295 300
Leu Thr Arg Ser Ala Leu Leu Pro Thr Ile Pro Asp Thr Glu Asp Glu		
305	310	315 320
Ile Ser Pro Asp Lys Val Ile Leu Cys Leu		
	325	330

&lt;210&gt; 1162

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1162

Cys Arg Lys Thr Ala Gln Pro Thr Ala Ala Glu Met Lys Tyr Lys Asn  
1 5 10 15

Leu Met Ala Arg Ala Leu Tyr Asp Asn Val Pro Glu Cys Ala Glu Glu  
20 25 30

Leu Ala Phe Arg Lys Gly Asp Ile Leu Thr Val Ile Glu Gln Asn Thr  
35 40 45

Gly Gly Leu Glu Gly Trp Trp Leu Cys Ser Leu His Gly Arg Gln Gly  
50 55 60

Ile Val Pro Gly Asn Arg Val Lys Leu Leu Ile Gly Pro Met Gln Glu  
65 70 75 80

Thr Ala Ser Ser His Glu Gln Pro Ala Ser Gly Leu Met Gln Gln Thr  
85 90 95

Phe Gly Gln Gln Lys Leu Tyr Gln Val Pro Asn Pro Thr Gly Leu Leu  
100 105 110

Pro Pro Arg His Pro Phe Leu Pro Lys Val Pro Thr Leu Ser Leu Thr  
115 120 125

Gln Lys Ile Lys Gly Glu Ile Phe Thr Gln Arg Phe Pro Gln Leu Xaa  
130 135 140

Ala Gln Arg Xaa Thr Pro Lys Gly Xaa Lys Gly Gly Val Leu Phe Arg  
145 150 155 160

Val Ala Pro Pro Xaa  
165

<210> 1163

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (186)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1163

Phe Leu Asn Arg Glu Leu Ile Val Lys Ser Ser Met Ala Thr Gly Gly  
 1 5 10 15

Gly Pro Phe Glu Asp Gly Met Asn Asp Gln Asp Leu Pro Asn Trp Ser  
 20 25 30

Asn Glu Asn Val Asp Asp Arg Leu Asn Asn Met Asp Trp Gly Ala Gln  
 35 40 45

Gln Lys Lys Ala Asn Arg Ser Ser Glu Lys Asn Lys Lys Lys Phe Gly  
 50 55 60

Val Glu Ser Asp Lys Arg Val Thr Asn Asp Ile Ser Pro Glu Ser Ser  
 65 70 75 80

Pro Gly Val Gly Arg Arg Arg Thr Lys Thr Pro His Thr Phe Pro His  
 85 90 95

Ser Arg Tyr Met Ser Gln Met Ser Val Pro Glu Gln Ala Glu Leu Glu  
 100 105 110

Lys Leu Lys Gln Arg Ile Asn Phe Ser Asp Leu Asp Gln Arg Ser Ile  
 115 120 125

Gly Ser Asp Ser Gln Gly Arg Ala Thr Ala Ala Asn Asn Lys Arg Gln  
 130 135 140

Leu Ser Glu Asn Arg Lys Pro Phe Asn Phe Leu Pro Met Gln Ile Asn  
 145 150 155 160

Thr Asn Lys Glu Gln Arg Cys Ile Leu Gln Val Pro Gln Thr Glu Glu  
 165 170 175

Thr Val Gly Phe Ser Thr Val Leu Lys Xaa Cys Phe Ala Phe Trp Phe  
 180 185 190

Leu Ser Asn  
 195

&lt;210&gt; 1164

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1164

Arg Arg Pro Ser Ala Arg Arg Glu Leu Gly Lys Gly Arg Gln Arg Arg  
 1 5 10 15

Arg Arg Gln Arg Gln Arg Gln Ser Pro Val Pro Arg Pro Ser Asp Arg  
 20 25 30

Pro Ala Gly Leu Gly Leu Ala Lys Pro Ala Arg Arg Ala Leu Pro Thr  
 35 40 45

Pro Glu Pro Gly Arg Lys Ser Ser Asp Ser Ser Leu Ala Ser Pro Gly  
 50 55 60

Ala Ala Leu Gln Thr Gly Pro Val Val Arg Gly Ser Gly Ala Asp Pro  
 65 70 75 80

Glu Ala Gly Phe Ala Gln Pro Pro Thr Arg Ala Gly Pro Leu Glu Gly  
 85 90 95

Ala Phe Asn Ser Arg Thr Arg Gln Ala Thr Met Thr Glu Asn Ser Thr  
 100 105 110

Ser Ala Pro Ala Ala Lys Pro Lys Arg Ala Lys Ala Ser Lys Lys Ser  
 115 120 125

Thr Asp His Pro Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln Ala  
 130 135 140

Glu Lys Asn Arg Ala Gly Ser Ser Arg Gln Ser Ile Gln Lys Tyr Ile  
 145 150 155 160

Lys Ser His Tyr Lys Val Gly Glu Asn Ala Asp Ser Gln Ile Lys Leu  
 165 170 175

Ser Ile Lys Arg Leu Val Thr Thr Gly Val Leu Lys Gln Thr Lys Gly  
 180 185 190

Val Gly Ala Ser Gly Ser Phe Arg Leu Ala Lys Ser Asp Glu Pro Lys  
 195 200 205

Lys Ser Val Ala Phe Lys Lys Thr Lys Lys Glu Ile Lys Lys Val Ala  
 210 215 220

Thr Pro Lys Lys Ala Ser Lys Pro Lys Lys Ala Ala Ser Lys Ala Pro  
 225 230 235 240

Thr	Lys	Lys	Pro	Lys	Ala	Thr	Pro	Val	Lys	Lys	Ala	Lys	Lys	Lys	Leu
				245				250				255			
Ala	Ala	Thr	Pro	Lys	Lys	Ala	Lys	Lys	Pro	Lys	Thr	Val	Lys	Ala	Lys
				260				265				270			
Pro	Val	Lys	Ala	Ser	Lys	Pro	Lys	Lys	Ala	Lys	Pro	Val	Lys	Pro	Lys
				275				280				285			
Ala	Lys	Ser	Ser	Ala	Lys	Arg	Ala	Gly	Lys	Lys	Lys				
				290				295				300			

```
<210> 1165
<211> 150
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 1165
Ser Thr His Ala Ser Ala His Ala Ser Gly Lys Gln Glu Ile Val Asp
  1                      5                      10                      15
Pro Pro Ser Lys Met Glu Asp Gly Lys Pro Val Trp Ala Pro His Pro
          20                      25                      30
Thr Asp Gly Phe Gln Met Gly Asn Ile Val Asp Ile Gly Pro Asp Ser
      35                      40                      45
Leu Thr Ile Glu Pro Leu Asn Gln Lys Gly Lys Thr Phe Leu Ala Leu
      50                      55                      60
Ile Asn Gln Val Phe Pro Ala Glu Glu Asp Ser Lys Lys Asp Val Glu
  65                      70                      75                      80
Asp Asn Cys Ser Leu Met Tyr Leu Asn Glu Ala Thr Leu Leu His Asn
          85                      90                      95
Ile Lys Val Arg Tyr Ser Lys Asp Arg Ile Tyr Thr Tyr Val Ala Asn
          100                      105                      110
Ile Leu Xaa Ala Val Asn Pro Tyr Phe Asp Ile Pro Lys Ile Tyr Leu
          115                      120                      125
Gln Ser Ile Lys Ser Tyr Gln Gly Lys Ser Leu Gly Thr Arg Pro Pro
          130                      135                      140

```



Pro Gly Leu Cys Asn Cys  
145 150

<210> 1166  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166  
Ala Ile Trp Pro Leu Arg Gly Leu Leu Arg Tyr Arg Gln Phe Cys Gly  
1 5 10 15

Ala Ala Ser Ala Ala Pro Arg Arg Ser Asn Met Leu Arg Ile Pro Leu  
20 25 30

Arg Arg Ala Leu Val Xaa Leu Ser Asn Lys Ser Ser Lys Gly Cys Val  
35 40 45

Arg Thr Thr Ala Thr Ala Ala Ser Asn Leu Ile Glu Val Phe Val Asp  
50 55 60

Gly Gln Ser Val Met Val Glu Pro Gly Thr Thr Val Leu Gln Ala Cys  
65 70 75 80

Glu Lys Val Gly

<210> 1167  
<211> 348  
<212> PRT  
<213> Homo sapiens

<400> 1167  
Leu Ile Phe Cys Gly Cys Trp Leu Phe Ala Ser Leu Thr Val Met Glu  
1 5 10 15

Ala Ala His Phe Phe Glu Gly Thr Glu Lys Leu Leu Glu Val Trp Phe  
20 25 30

Ser Arg Gln Gln Pro Asp Ala Asn Gln Gly Ser Gly Asp Leu Arg Thr  
35 40 45

Ile Pro Arg Ser Glu Trp Asp Ile Leu Leu Lys Asp Val Gln Cys Ser  
 50 55 60

Ile Ile Ser Val Thr Lys Thr Asp Lys Gln Glu Ala Tyr Val Leu Ser  
 65 70 75 80

Glu Ser Ser Met Phe Val Ser Lys Arg Arg Phe Ile Leu Lys Thr Cys  
 85 90 95

Gly Thr Thr Leu Leu Lys Ala Leu Val Pro Leu Leu Lys Leu Ala  
 100 105 110

Arg Asp Tyr Ser Gly Phe Asp Ser Ile Gln Ser Phe Phe Tyr Ser Arg  
 115 120 125

Lys Asn Phe Met Lys Pro Ser His Gln Gly Tyr Pro His Arg Asn Phe  
 130 135 140

Gln Glu Glu Ile Glu Phe Leu Asn Ala Ile Phe Pro Asn Gly Ala Ala  
 145 150 155 160

Tyr Cys Met Gly Arg Met Asn Ser Asp Cys Trp Tyr Leu Tyr Thr Leu  
 165 170 175

Asp Phe Pro Glu Ser Arg Val Ile Ser Gln Pro Asp Gln Thr Leu Glu  
 180 185 190

Ile Leu Met Ser Glu Leu Asp Pro Ala Val Met Asp Gln Phe Tyr Met  
 195 200 205

Lys Asp Gly Val Thr Ala Lys Asp Val Thr Arg Glu Ser Gly Ile Arg  
 210 215 220

Asp Leu Ile Pro Gly Ser Val Ile Asp Ala Thr Met Phe Asn Pro Cys  
 225 230 235 240

Gly Tyr Ser Met Asn Gly Met Lys Ser Asp Gly Thr Tyr Trp Thr Ile  
 245 250 255

His Ile Thr Pro Glu Pro Glu Phe Ser Tyr Val Ser Phe Glu Thr Asn  
 260 265 270

Leu Ser Gln Thr Ser Tyr Asp Asp Leu Ile Arg Lys Val Val Glu Val  
 275 280 285

Phe Lys Pro Gly Lys Phe Val Thr Thr Leu Phe Val Asn Gln Ser Ser  
 290 295 300

Lys Cys Arg Thr Val Leu Ala Ser Pro Gln Lys Ile Glu Gly Phe Lys  
 305 310 315 320

Arg Leu Asp Cys Gln Ser Ala Met Phe Asn Asp Tyr Asn Phe Val Phe  
325 330 335

Thr Ser Phe Ala Lys Lys Gln Gln Gln Gln Ser  
340 345

<210> 1168

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Ser Ser Gln Arg Leu Gln Gly Arg Ala Arg Ala Val Leu Ser Pro Pro  
1 5 10 15

Ala Pro Xaa Ser Asn Val Gly Thr Gly Glu Lys Lys Val Thr Glu Ala  
20 25 30

Trp Ile Ser Glu Asp Glu Asn Ser His Arg Thr Thr Ser Asp Arg Leu  
35 40 45

Thr Val Met Glu Leu Pro Ser Pro Glu Ser Glu Glu Val His Glu Pro  
50 55 60

Arg Leu Gly Glu Leu Leu Gly Asn Pro Glu Gly Gln Ser Leu Gly Ser  
65 70 75 80

Ser Pro Ser Gln Asp Arg Gly Cys Asn Arg  
85 90

<210> 1169

<211> 277

<212> PRT

<213> Homo sapiens

<400> 1169

Arg Ser Thr Arg Trp Arg Pro Lys Val Met Trp His Leu Leu Arg Arg  
1 5 10 15

Tyr Met Ala Ser Arg Leu His Ser Leu Arg Met Gly Gly Tyr Leu Phe  
20 25 30



<210> 1170

<211> 489

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (349)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (351)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (362)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1170

Thr Arg Val Phe Lys Glu Leu Glu Asn Thr Gly Lys Leu Ile Cys Ser  
1 5 10 15

Pro Thr His Ile Asp Arg Val Arg Leu Phe Leu Met Gln Leu Arg Lys  
20 25 30

Met Gln Thr Val Lys Lys Glu Gln Ala Ser Leu Asp Ala Ser Ser Asn  
35 40 45

Val Asp Lys Met Met Val Leu Asn Ser Ala Leu Thr Glu Val Ser Glu  
50 55 60

Asp Ser Thr Thr Gly Glu Glu Leu Leu Leu Ser Glu Gly Ser Val Gly  
65 70 75 80

Lys Asn Lys Ser Ser Ala Cys Arg Arg Lys Arg Glu Phe Ile Pro Asp  
85 90 95

Glu Lys Lys Asp Ala Met Tyr Trp Glu Lys Arg Arg Lys Asn Asn Glu  
100 105 110

Ala Ala Lys Arg Ser Arg Glu Lys Arg Arg Leu Asn Asp Leu Val Leu  
115 120 125

Glu Asn Lys Leu Ile Ala Leu Gly Glu Glu Asn Ala Thr Leu Lys Ala

130	135	140
Glu Leu Leu Ser Leu Lys Leu Lys Phe Gly Leu Ile Ser Ser Thr Ala		
145	150	155 160
Tyr Ala Gln Glu Ile Gln Lys Leu Ser Asn Ser Thr Ala Val Tyr Phe		
	165	170 175
Gln Asp Tyr Gln Thr Ser Lys Ser Asn Val Ser Ser Phe Val Asp Glu		
	180	185 190
His Glu Pro Ser Met Val Ser Ser Ser Cys Ile Ser Val Ile Lys His		
	195	200 205
Ser Pro Gln Ser Ser Leu Ser Asp Val Ser Glu Val Ser Ser Val Glu		
	210	215 220
His Thr Gln Glu Ser Ser Val Gln Gly Ser Cys Arg Ser Pro Glu Asn		
	225	230 235 240
Lys Phe Gln Ile Ile Lys Gln Glu Pro Met Glu Leu Glu Ser Tyr Thr		
	245	250 255
Arg Glu Pro Arg Asp Asp Arg Gly Ser Tyr Thr Ala Ser Ile Tyr Gln		
	260	265 270
Asn Tyr Met Gly Asn Ser Phe Ser Gly Tyr Ser His Ser Pro Pro Leu		
	275	280 285
Leu Gln Val Asn Arg Ser Ser Ser Asn Ser Pro Arg Thr Ser Glu Thr		
	290	295 300
Asp Asp Gly Val Val Gly Lys Ser Ser Asp Gly Glu Asp Glu Gln Gln		
	305	310 315 320
Val Pro Lys Gly Pro Ile His Ser Pro Val Glu Leu Lys His Val His		
	325	330 335
Ala Thr Val Val Lys Val Pro Glu Val Asn Ser Ser Xaa Leu Xaa His		
	340	345 350
Lys Leu Arg Xaa Lys Ala Lys Ala Met Xaa Ile Lys Val Glu Ala Phe		
	355	360 365
Asp Asn Glu Phe Glu Ala Thr Gln Lys Leu Ser Ser Pro Ile Asp Met		
	370	375 380
Thr Ser Lys Arg His Phe Glu Leu Glu Lys His Ser Ala Pro Ser Met		
	385	390 395 400
Val His Ser Ser Leu Thr Pro Phe Ser Val Gln Val Thr Asn Ile Gln		

405                      410                      415  
 Asp Trp Ser Leu Lys Ser Glu His Trp His Gln Lys Glu Leu Ser Gly  
                     420                      425                      430  
 Lys Thr Gln Asn Ser Phe Lys Thr Gly Val Val Glu Met Lys Asp Ser  
                     435                      440                      445  
 Gly Tyr Lys Val Ser Asp Pro Glu Asn Leu Tyr Leu Lys Gln Gly Ile  
                     450                      455                      460  
 Ala Asn Leu Ser Ala Glu Val Val Ser Leu Lys Arg Leu Ile Ala Thr  
                     465                      470                      475                      480  
 Gln Pro Ile Ser Ala Ser Asp Ser Gly  
                     485

<210> 1171  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1171  
 Gly Gly Val Thr Lys Arg Gln Ile Leu His Met Ile Pro Leu Val Ile  
   1                    5                    10                    15  
 Pro Arg Val Lys Phe Met Glu Thr Glu Ser Arg Lys Val Val Thr Ser  
                     20                    25                    30  
 Gly Trp Glu Gly Glu Asn Val Glu Phe Asn Gly Tyr Arg Ile Leu Val  
                     35                    40                    45  
 Leu

<210> 1172  
 <211> 442  
 <212> PRT  
 <213> Homo sapiens

<400> 1172  
 Ala Glu Ala Arg Ala Lys Ala Glu Ala Ala Gly Leu Arg Glu Ala Ala  
   1                    5                    10                    15  
 Ala Arg Arg Arg Ser Leu Ser Pro Ala Thr Met Ser Thr Lys Gln Ile  
                     20                    25                    30

Thr Cys Arg Tyr Phe Met His Gly Val Cys Arg Glu Gly Ser Gln Cys  
 35 40 45  
 Leu Phe Ser His Asp Leu Ala Asn Ser Lys Pro Ser Thr Ile Cys Lys  
 50 55 60  
 Tyr Tyr Gln Lys Gly Tyr Cys Ala Tyr Gly Thr Arg Cys Arg Tyr Asp  
 65 70 75 80  
 His Thr Arg Pro Ser Ala Ala Ala Gly Gly Ala Val Gly Thr Met Ala  
 85 90 95  
 His Ser Val Pro Ser Pro Ala Phe His Ser Pro His Pro Pro Ser Glu  
 100 105 110  
 Val Thr Ala Ser Ile Val Lys Thr Asn Ser His Glu Pro Gly Lys Arg  
 115 120 125  
 Glu Lys Arg Thr Leu Val Leu Arg Asp Arg Asn Leu Ser Gly Met Ala  
 130 135 140  
 Glu Arg Lys Thr Gln Pro Ser Met Val Ser Asn Pro Gly Ser Cys Ser  
 145 150 155 160  
 Asp Pro Gln Pro Ser Pro Glu Met Lys Pro His Ser Tyr Leu Asp Ala  
 165 170 175  
 Ile Arg Ser Gly Leu Asp Asp Val Glu Ala Ser Ser Ser Tyr Ser Asn  
 180 185 190  
 Glu Gln Gln Leu Cys Pro Tyr Ala Ala Ala Gly Glu Cys Arg Phe Gly  
 195 200 205  
 Asp Ala Cys Phe Tyr Leu His Gly Glu Val Cys Glu Ile Cys Arg Leu  
 210 215 220  
 Gln Val Leu His Pro Phe Asp Pro Glu Gln Arg Lys Ala His Glu Lys  
 225 230 235 240  
 Ile Cys Met Leu Thr Phe Glu His Glu Met Glu Lys Ala Phe Ala Phe  
 245 250 255  
 Gln Ala Ser Gln Asp Lys Val Cys Ser Ile Cys Met Glu Val Ile Leu  
 260 265 270  
 Glu Lys Ala Ser Ala Ser Glu Arg Arg Phe Gly Ile Leu Ser Asn Cys  
 275 280 285  
 Asn His Thr Tyr Cys Leu Ser Cys Ile Arg Gln Trp Arg Cys Ala Lys  
 290 295 300



Gln Phe Glu Asn Pro Ile Ile Lys Ser Cys Pro Glu Cys Arg Val Ile  
 305 310 315 320

Ser Glu Phe Val Ile Pro Ser Val Tyr Trp Val Glu Asp Gln Asn Lys  
 325 330 335

Lys Asn Glu Leu Ile Glu Ala Phe Lys Gln Gly Met Gly Lys Lys Ala  
 340 345 350

Cys Lys Tyr Phe Glu Gln Gly Lys Gly Thr Cys Pro Phe Gly Ser Lys  
 355 360 365

Cys Leu Tyr Arg His Ala Tyr Pro Asp Gly Arg Leu Ala Glu Pro Glu  
 370 375 380

Lys Pro Arg Lys Gln Leu Ser Ser Gln Gly Thr Val Arg Phe Phe Asn  
 385 390 395 400

Ser Val Arg Leu Trp Asp Phe Ile Glu Asn Arg Glu Ser Arg His Val  
 405 410 415

Pro Asn Asn Glu Asp Val Asp Met Thr Glu Leu Gly Asp Leu Phe Met  
 420 425 430

His Leu Ser Gly Val Glu Ser Ser Glu Pro  
 435 440

<210> 1173

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173

Leu Glu Phe Trp Leu Leu Cys Leu Xaa Ser Arg His Leu Leu Tyr Gln

1                      5                      10                      15  
 Leu Leu Trp Asn Met Phe Ser Lys Glu Val Glu Leu Ala Asp Ser Met  
                     20                      25                      30  
 Gln Thr Leu Phe Arg Gly Asn Ser Leu Ala Ser Lys Ile Met Thr Phe  
                     35                      40                      45  
 Cys Phe Lys Val Tyr Gly Ala Thr Tyr Leu Gln Lys Leu Leu Xaa Pro  
                     50                      55                      60  
 Leu Leu Arg Ile Val Ile Thr Ser Ser Asp Trp Gln His Val Ser Phe  
                     65                      70                      75                      80  
 Glu Val Asp Pro Thr Xaa Leu Glu Pro Ser Glu Ser Leu Glu Glu Asn  
                     85                      90                      95  
 Gln Arg Asn Leu Leu Gln Met Thr Glu Lys Phe Phe His Ala Ile Ile  
                     100                      105                      110  
 Ser Ser Ser Ser Glu Phe Pro Pro Gln Leu Arg Ser Val Cys His Cys  
                     115                      120                      125  
 Leu Tyr Gln Ala Thr Tyr His Ser Leu Leu Asn Lys Ala Thr  
                     130                      135                      140

<210> 1174

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1174

Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro  
                     1                      5                      10                      15  
 Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser  
                     20                      25                      30  
 Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala

```
aggttgtcaa cgagaaaatg aaactctaata acaaagaaga aaagaccaga tgcaaccagg 900
gggcactgca attagtgtta cagtacctta tagagtagta gaccagcccc ttaacttat 960
gcctcaagac tgggaccgag ttgtagccgt ttttgtgcag ggccttgcag ggcagttcaa 1020
aggttggcca tggcttttgc ctgatggatc accagttgat atatttgcta aaattaaagc 1080
cttccatctg aagtatgatg aagttcgtct ggatccaaat gttcagaaat gggatgtaac 1140
agtattagaa ctcagctatc acaaacgtca tttggataga ccagtgttct tacggttttg 1200
ggaaacattg gacaggtaca tggtaaagca taaatcgcac ttgagattct gaattatttg 1260
gctcctccat ttctggaaat tgagactcaa gctttatgaa tttatcaaga acttaaaaaat 1320
gaagaaggtc acagattgat cttttataag accttatttg atgctttgtg cttcaaggag 1380
atgatacctg tcatccatat aagcaaaactt tttggcttac aactattttt ttaattattag 1440
ccttctagtc tgtaatggaa attgtatat ttgatagaag ttttttctcc attgggttaaa 1500
ttagcattac ttaaaatttg tttcttttag aaataaatgc aggttataaa tgtgtgtata 1560
tttagagatt ataaggctct ctgagccatc ttctgatttt tncattgctc tataattctt 1620
tttactgaaa atactatgtt atgaatggta ttaaatttta gtctctggaa catccaaaac 1680
caagcaaagg gatgtgacta ttttgaatga atcagaatgt caacttgat gtacactata 1740
tctacactta ctcattattt aaaaagaata atgaaaaatc tagatcaatt cttcaatttg 1800
attgaactgt tcagcctttt caagatttct ttatttacia atgattacat ttaaataaat 1860
gtacattctt ctcactgact ttggtgattt tgaaacctag aatgatgtgt ttctatctgt 1920
aatatctttc catttgaaaa aaatctcaaa acacagatta aaaccacaat aggctgtagt 1980
attttttatt ttgggagcca gagtatgatt tgggggaaga atatgtatca gccctattgc 2040
agtataactt taagctcctt ttctcttttag tccacttttg attggnaatt ttatggnata 2100
ggatttgaat ctcccattha aggctggcag cctggagtcn tac 2143
```

<210> 552

<211> 1634

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1566)

35	40	45
Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu		
50	55	60
Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala		
65	70	75 80
Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro		
	85	90 95
Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala		
	100	105 110
His His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser		
	115	120 125
Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser		
	130	135 140
Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His		
	145	150 155 160
Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Ser Asp Gly Pro		
	165	170 175
Leu Val Cys Ala Leu Glu Gln Glu Arg Arg Leu Ala Xaa Pro Pro Lys		
	180	185 190
Pro Pro Pro Pro Leu Gln Pro Leu Leu Arg Gly Gly Gln Gly Leu Glu		
	195	200 205
Ala Ala Leu Ser Cys Pro Arg Phe Leu Arg Tyr Pro Arg Gln His Leu		
	210	215 220
Ile Ser Ser Leu Ala Glu Ala Arg Pro Glu Glu Leu Thr Pro His Val		
	225	230 235 240
Met Val Leu Leu Ala Gln His Leu Ala Arg His Arg Leu Arg Glu Pro		
	245	250 255
Gln Leu Leu Glu Ala Ile Ala His Phe Leu Val Val Gln Glu Thr Gln		
	260	265 270
Leu Ser Ser Lys Val Val Gln Lys Leu Val Leu Pro Phe Gly Arg Leu		
	275	280 285
Asn Tyr Leu Pro Leu Glu Gln Gln Phe Met Pro Cys Leu Glu Arg Ile		
	290	295 300
Leu Ala Arg Glu Ala Gly Val Ala Xaa Leu Ala Thr Val Asn Ile Leu		

305                      310                      315                      320  
 Met Ser Leu Cys Gln Leu Arg Cys Leu Pro Phe Arg Ala Leu His Phe  
                                  325                      330                      335  
 Val Phe Ser Pro Gly Phe Ile Asn Tyr Ile Ser Gly Thr Gln Pro Gly  
                                  340                      345                      350  
 Trp Leu Ala Gly Pro Leu Arg Ala Gly Glu Ala Gly Glu Gln Gly Gly  
                                  355                      360                      365  
 Leu Gln Pro Arg Ala Pro Val Pro Ala Ser Pro Gln Ala Pro Leu Met  
                                  370                      375                      380  
 Leu  
 385

&lt;210&gt; 1175

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1175

His Glu Gln Asp Pro Lys Trp Gln Arg Cys Arg Leu Ser Trp Glu Ser  
   1                                  5                                  10                                  15

Glu Pro Leu Trp Leu Phe Gly Arg Leu Met Val Thr Leu Lys Tyr Cys  
                                   20                                  25                                  30

Leu Pro Leu Val Ser Arg Pro Ser Ser Ile Arg Trp Glu Arg Arg Pro  
                                   35                                  40                                  45

Gln Xaa Met Cys Leu Ser Asp His Gly Ala Ser Cys Pro Ala Leu Gly  
   50                                  55                                  60

Lys Thr Glu Thr Lys Ser Ser Gln Leu Ala Leu Gly Glu Gly Leu Phe  
   65                                  70                                  75                                  80

Pro Leu Pro Leu Ala His Phe Gln Glu Phe Asp Ser Glu Ser Arg Ala  
                                   85                                  90                                  95

Ala Val Pro Gly Arg Val Cys Thr His Ile Cys Val Gly Arg Lys Lys  
                                   100                                  105                                  110



Arg Thr

&lt;210&gt; 1176

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (182)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1176

Gln Arg Leu Glu Ser Gly Asp Cys Ile Gly Val Leu Asp Cys Glu Trp  
 1 5 10 15

Cys Met Val Asp Ser Asp Gly Lys Thr His Leu Asp Lys Pro Tyr Cys  
 20 25 30

Ala Pro Gln Lys Glu Cys Phe Gly Gly Ile Val Gly Ala Lys Ser Pro  
 35 40 45

Tyr Val Asp Asp Met Gly Ala Ile Gly Asp Glu Val Ile Thr Leu Asn  
 50 55 60

Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly  
 65 70 75 80

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile  
 85 90 95

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met  
 100 105 110

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp  
 115 120 125

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala  
 130 135 140

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Tyr  
 145 150 155 160

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser  
 165 170 175

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln  
 180 185

<210> 1177  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1177  
 His Ile Ala Lys Val Ser Cys Thr Leu Leu Gln Gly Asn Val Ser Phe  
 1 5 10 15  
 Met Ala Leu Lys His Leu Gly Lys Lys Lys Met Phe Lys Arg Ile Asn  
 20 25 30  
 Arg Ala Val Val Cys Ile Arg Met Cys Val Ile Cys Val Phe Tyr Lys  
 35 40 45  
 Leu Ser Ile Gly Gly Phe Arg Val Leu Lys Cys Gln His Ile Pro Ser  
 50 55 60  
 Pro Phe Val Ser Gln Ala Asn Met Arg Glu Asn Arg Lys Val Leu Ala  
 65 70 75 80  
 Val Gly Ile Gly Ser Ser Gly Gly Gln Met Ser Leu Pro Asp Pro  
 85 90 95

<210> 1178  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178  
 Asn Ser Leu Thr Leu Ala Leu Pro Arg Xaa Thr Thr Ser His Asn Ser  
 1 5 10 15  
 Leu Thr Thr Pro Cys Tyr Thr Pro Tyr Tyr Val Ala Pro Glu Val Leu  
 20 25 30  
 Gly Pro Glu Lys Tyr Asp Lys Ser Cys Asp Met Trp Ser Leu Gly Val  
 35 40 45  
 Ile Met Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Ser Asn His  
 50 55 60



Gly Leu Ala Ile Ser Pro Gly Met Lys Thr Arg Ile Arg Met Gly Gln  
65 70 75 80

Tyr Glu Phe Pro Asn Pro Glu Trp Ser Glu Val Ser Glu Glu Val Lys  
85 90 95

Met Leu Ile Arg Asn Leu Leu Lys Thr Glu Pro Thr Gln Arg Met Thr  
100 105 110

Ile Thr Glu Phe Met Asn His Pro Trp Ile Met Gln Ser Thr Lys Val  
115 120 125

Pro Gln Thr Pro Leu His Thr Ser Arg Val Leu Lys Glu Asp Lys Glu  
130 135 140

Arg Trp Glu Asp Val Lys Glu Glu Met Thr Ser Ala Leu Ala Thr Met  
145 150 155 160

Arg Val Asp Tyr Glu Gln Ile Lys Ile Lys Lys Ile Glu Asp Ala Ser  
165 170 175

Asn Pro Leu Leu Leu Lys Arg Arg Lys Lys Ala Arg Ala Leu Glu Ala  
180 185 190

Ala Ala Leu Ala His  
195

<210> 1179

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1179

His	Glu	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Lys	Glu	Cys
1				5					10					15	

Arg	Lys	Thr	Phe	Ser	Gln	Met	Thr	His	Leu	Thr	Gln	His	Gln	Thr	Thr
			20					25					30		

His	Thr	Arg	Glu	Lys	Phe	His	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Ala	Phe
	35						40					45			

Ser	Arg	Val	Ser	Ala	Leu	Ile	Asp	His	Gln	Arg	Ile	His	Ser	Gly	Glu
	50					55					60				

Xaa	Pro	Tyr	Glu	Cys	Lys	Xaa	Cys	Gly	Arg	Ala	Phe	Thr	Gln	Ser	Ala
65					70					75					80

Gln	Leu	Ile	Xaa	His	Gln	Lys	Thr	His	Ser	Gly	Glu	Lys	Pro	Tyr	Glu
			85						90					95	

Cys	Ser	Lys	Cys	Lys	Lys	Ser	Phe	Val	His	Leu	Ser	Xaa	Leu	Ile	Glu
		100						105					110		

His	Trp	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Lys	Asp	Cys
		115					120					125			

Lys	Lys	Thr	Phe	Cys	Arg	Val	Met	Gln	Phe	Thr	Leu	His	Arg	Arg	Ile
	130						135				140				

His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Lys	Glu	Cys	Gly	Lys	Ser	Phe
145					150					155					160

Ser	Ala	His	Ser	Ser	Leu	Val	Thr	His	Lys	Arg	Thr	His	Ser	Gly	Glu
			165						170					175	

Lys	Pro	Tyr	Lys	Cys	Lys	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Ala	His	Ser
			180					185						190	

Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu Lys Pro Tyr Thr  
 195 200 205

Cys His Ala Cys Gly Lys Ala Phe Asn Thr Ser Ser Thr Leu Cys Xaa  
 210 215 220

His Xaa Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ser Gln Cys  
 225 230 235 240

Gly Lys Ser Leu Val Phe Ser Cys Arg  
 245

<210> 1180

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (362)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Glu Asp Arg Glu Ala Glu Pro Gln Ile Ala Ala Xaa Asn Leu Lys Phe  
 1 5 10 15

Gln Gly Ala Ser Asn Leu Thr Leu Ser Glu Thr Gln Asn Gly Asp Val  
 20 25 30

Ser Glu Glu Thr Met Gly Ser Arg Lys Val Lys Lys Ser Lys Gln Lys  
 35 40 45

Pro Met Asn Val Gly Leu Ser Glu Thr Gln Asn Gly Gly Met Ser Gln  
 50 55 60

Glu Ala Val Gly Asn Ile Lys Val Thr Lys Ser Pro Gln Lys Ser Thr  
65 70 75 80

Val Leu Ser Asn Gly Glu Ala Ala Met Gln Ser Ser Asn Ser Glu Ser  
85 90 95

Lys Lys Lys Lys Lys Lys Lys Arg Lys Met Val Asn Asp Ala Glu Pro  
100 105 110

Asp Thr Lys Lys Ala Lys Thr Glu Asn Lys Gly Lys Ser Glu Glu Glu  
115 120 125

Ser Ala Glu Thr Thr Lys Glu Thr Glu Asn Asn Val Glu Lys Pro Asp  
130 135 140

Asn Asp Glu Asp Glu Ser Glu Val Pro Ser Leu Pro Leu Gly Leu Thr  
145 150 155 160

Gly Ala Phe Glu Asp Thr Ser Phe Ala Ser Leu Cys Asn Leu Val Asn  
165 170 175

Glu Asn Thr Leu Lys Ala Ile Lys Glu Met Gly Phe Thr Asn Met Thr  
180 185 190

Glu Ile Gln His Lys Ser Ile Arg Pro Leu Leu Glu Gly Arg Asp Leu  
195 200 205

Leu Ala Ala Ala Lys Thr Gly Ser Gly Lys Thr Leu Ala Phe Leu Ile  
210 215 220

Pro Ala Val Glu Leu Ile Val Lys Leu Arg Phe Met Pro Arg Asn Gly  
225 230 235 240

Thr Gly Val Leu Ile Leu Ser Pro Thr Arg Glu Leu Ala Met Gln Thr  
245 250 255

Phe Gly Val Leu Lys Glu Leu Met Thr His His Val His Thr Tyr Gly  
260 265 270

Leu Ile Met Gly Gly Ser Asn Arg Ser Ala Glu Ala Gln Lys Leu Gly  
275 280 285

Asn Gly Ile Asn Ile Ile Val Ala Thr Pro Gly Arg Leu Leu Asp His  
290 295 300

Met Gln Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val  
305 310 315 320

Ile Asp Glu Xaa Asp Arg Ile Leu Asp Val Gly Phe Glu Glu Glu Leu  
325 330 335

Lys Gln Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe  
340 345 350

Ser Ala Thr Gln Thr Arg Lys Xaa Glu Xaa Leu Ala Arg Ile Ser Leu  
355 360 365

Lys Lys Glu Pro Leu Val Cys Trp Arg  
370 375

<210> 1181

<211> 422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (248)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1181

Ser His Leu Leu Gln Thr Thr Tyr Pro Lys Gln Arg Met Pro Asp Arg  
1 5 10 15

Arg His Ser Lys Ser Ala Gln Ile Ile Xaa Xaa Pro Val Pro Tyr Gln  
20 25 30

Xaa Xaa Ser His Thr Ser Tyr Leu Tyr Thr Gln Tyr Ala Pro Val Pro  
35 40 45

Phe Gly Ile Pro Xaa Pro Met Pro Xaa Pro Met Leu Ile Pro Ser Ser  
50 55 60

Met Asp Ser Glu Asp Lys Val Thr Glu Ser Ile Glu Asp Ile Lys Glu  
65 70 75 80

Lys Leu Pro Thr His Pro Phe Glu Ala Asp Leu Leu Glu Met Ala Glu  
85 90 95

Met Ile Ala Glu Asp Glu Glu Lys Lys Thr Leu Ser Gln Gly Glu Ser  
100 105 110

Gln Thr Ser Glu His Glu Leu Phe Leu Asp Thr Lys Ile Phe Glu Lys  
115 120 125

Xaa Gln Gly Ser Thr Tyr Ser Gly Asp Leu Glu Ser Glu Ala Val Ser  
130 135 140

Thr Pro His Ser Trp Glu Glu Glu Leu Asn His Tyr Ala Leu Lys Ser  
145 150 155 160

Asn Ala Val Gln Glu Ala Asp Ser Glu Leu Lys Gln Phe Ser Lys Gly  
165 170 175

Glu Thr Glu Arg Thr Trp Lys Gln Ile Phe His Gln Thr Pro Leu Thr  
180 185 190

His Leu Ile Lys Asp Gly Asn Pro Gly Thr Phe Pro Asn Arg Arg Arg  
195 200 205

His Arg Asp Gly Phe Pro Gln Pro Arg Arg Arg Gly Arg Lys Lys Ser  
210 215 220

Ile Val Ala Val Glu Pro Arg Ser Leu Ile Gln Gly Ala Phe Gln Gly  
225 230 235 240

Cys Ser Val Ser Gly Met Thr xaa Lys Tyr Met Tyr Gly Val Asn Ala  
245 250 255

Trp Lys Asn Trp Val Gln Trp Lys Asn Ala Lys Glu Glu Gln Gly Asp  
260 265 270

Leu Lys Cys Gly Gly Val Glu Gln Ala Ser Ser Ser Pro Arg Ser Asp  
275 280 285

Pro Leu Gly Ser Thr Gln Asp His Ala Leu Ser Gln Glu Ser Ser Glu  
290 295 300

Pro Gly Cys Arg Val Arg Ser Ile Lys Leu Lys Glu Asp Ile Leu Ser  
305 310 315 320

Cys Thr Phe Ala Glu Leu Ser Leu Gly Leu Cys Gln Phe Ile Gln Glu  
325 330 335

Val Arg Arg Pro Asn Gly Glu Lys Tyr Asp Pro Asp Ser Ile Leu Tyr  
340 345 350

Leu Cys Leu Gly Ile Gln Gln Tyr Leu Phe Glu Asn Gly Arg Ile Asp  
355 360 365

Asn Ile Phe Thr Glu Pro Tyr Ser Arg Phe Met Ile Glu Leu Thr Lys  
370 375 380

Leu Leu Lys Ile Trp Glu Pro Thr Ile Leu Pro Asn Gly Tyr Met Phe  
385 390 395 400

Ser Arg Ile Glu Glu Glu His Leu Trp Glu Cys Lys Gln Leu Gly Ala  
405 410 415

Tyr Ser Pro Ile Ala Phe  
420

<210> 1182

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1182

Lys Thr Gly Ala Cys Pro Glu Asp Xaa Lys Tyr Cys Pro Gln Ser Ser  
1 5 10 15

Arg Tyr Lys Thr Gly Leu Glu Pro Xaa Gly  
20 25

<210> 1183

<211> 17

<212> PRT

<213> Homo sapiens

<400> 1183

Gly Gln Glu Ile Glu Thr Val Leu Ala Asn Met Val Lys Pro Arg Leu  
1 5 10 15

Tyr

<210> 1184

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1184

Cys Asp Ser Trp Asn Ala Val Met Ser Thr Leu Cys Pro Pro Pro Ser  
1 5 10 15

Pro Ala Val Ala Lys Thr Glu Ile Ala Leu Ser Gly Lys Ser Pro Leu  
20 25 30

Leu Ala Ala Thr Phe Ala Tyr Trp Asp Asn Ile Leu Gly Pro Arg Val  
35 40 45

Arg His Ile Trp Ala Pro Lys Thr Glu Gln Val Leu Leu Ser Asp Gly  
50 55 60

Glu Ile Thr Phe Leu Ala Asn His Thr Leu Asn Gly Glu Ile Leu Arg  
65 70 75 80



Asn Ala Glu Ser Gly Ala Ile Asp Val Lys Phe Phe Val Leu Ser Glu  
85 90 95

Lys Gly Val Ile Ile Val Ser Leu Ile Phe Asp Gly Asn Trp Asn Gly  
100 105 110

Asp Arg Ser Thr Tyr Gly Leu Ser Ile Ile Leu Pro Gln Thr Glu Leu  
115 120 125

Ser Phe Tyr Leu Pro Leu His Arg Val Cys Val Asp Arg Leu Thr His  
130 . 135 140

Ile Ile Arg Lys Gly Arg Ile Trp Met His Lys Glu Arg Xaa Glu Met  
145 150 155 160

Ser Arg Arg Leu Ser  
165

<210> 1185

 $\langle 211 \rangle$  110

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1185

Gly Thr Ala Phe Thr Arg Gln Cys Ser Gln Gly Pro Trp Tyr Arg Ala  
1 5 10 15

Arg Ser Arg Val Pro Gln Val Val Arg Leu Pro Gly Pro His Leu Glu  
20 25 30

Pro Ser L u Cys Ser Phe Glu Ser Arg Cys Cys Pro Thr Pro Ile Pro  
35 40 45

Asn Gln Pro Pro Pro Pro Ala Ser Leu Pro Ser Val Pro Phe Ile Leu  
50 55 60

Pro Gly Val Pro Ser Ala Cys His Gly Thr Ala Cys Tyr Leu Xaa Gln  
65 70 75 80

Leu Gln Met Pro Ala Leu Asn Leu Pro Trp Xaa Pro Phe Leu Tyr Xaa  
85 90 95

Val Asn Ser Leu Asn Ser Ala Leu Pro Leu Pro Ala Leu Lys  
100 105 110

<210> 1186

<211> 352

<212> PRT

<213> Homo sapiens

<400> 1186

Cys Arg Ser Pro Glu Ala Ser Val Leu Phe Pro Glu Val Ser Gly Leu  
1 5 10 15

Gly Gln Pro Pro Ser Ser Ser Leu Arg Met Ala Ser Ser Ser Gly Ser  
20 25 30

Lys Ala Glu Phe Ile Val Gly Gly Lys Tyr Lys Leu Val Arg Lys Ile  
35 40 45

Gly Ser Gly Ser Phe Gly Asp Ile Tyr Leu Ala Ile Asn Ile Thr Asn  
50 55 60

Gly Glu Glu Val Ala Val Lys Leu Glu Ser Gln Lys Ala Arg His Pro  
65 70 75 80

Gln Leu Leu Tyr Glu Ser Lys Leu Tyr Lys Ile Leu Gln Gly Gly Val  
85 90 95

Gly Ile Pro His Ile Arg Trp Tyr Gly Gln Glu Lys Asp Tyr Asn Val  
100 105 110

Leu Val Met Asp Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe  
115 120 125

Cys Ser Arg Arg Phe Thr Met Lys Thr Val Leu Met Leu Ala Asp Gln  
130 135 140

Met Ile Ser Arg Ile Glu Tyr Val His Thr Lys Asn Phe Ile His Arg  
145 150 155 160

Asp Ile Lys Pro Asp Asn Phe Leu Met Gly Ile Gly Arg His Cys Asn

	165		170		175
Lys Leu Phe Leu Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Asn	180	185	190		
Arg Thr Arg Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly	195	200	205		
Thr Ala Arg Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser	210	215	220		
Arg Arg Asp Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn	225	230	235	240	
Arg Thr Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln	245	250	255		
Lys Tyr Glu Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val	260	265	270		
Leu Cys Lys Gly Phe Pro Ala Glu Phe Ala Met Tyr Leu Asn Tyr Cys	275	280	285		
Arg Gly Leu Arg Phe Glu Glu Ala Pro Asp Tyr Met Tyr Leu Arg Gln	290	295	300		
Leu Phe Arg Ile Leu Phe Arg Thr Leu Asn His Gln Tyr Asp Tyr Thr	305	310	315	320	
Phe Asp Trp Asp Asn Val Lys Ala Glu Ser Ser Thr Ala Gly Ser Leu	325	330	335		
Phe Gln Trp Ala Gly Ser Ala Gly Pro Asn Pro His Arg Gln Ala Asn	340	345	350		

&lt;210&gt; 1187

&lt;211&gt; 482

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (259)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (450)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (459)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (475)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1187  
Ala Gly Leu Val Ala Ala Gly Ala Val Arg Xaa Leu Tyr Pro Ala Ser  
1 5 10 15  
Arg Ala Gly Glu Arg Thr Arg Val Pro Gly Ser Pro Ala Pro Xaa Ser  
20 25 30  
Leu Pro Leu His Ser Pro Gly Ala Cys Gly Thr Glu Val Asp Met Asp  
35 40 45  
Pro Gln Arg Ser Pro Leu Leu Glu Val Lys Gly Asn Ile Glu Leu Lys  
50 55 60  
Arg Pro Leu Ile Lys Ala Pro Ser Gln Leu Pro Leu Ser Gly Ser Arg  
65 70 75 80  
Leu Lys Arg Arg Pro Asp Gln Met Glu Asp Gly Leu Glu Pro Glu Lys  
85 90 95  
Lys Arg Thr Arg Gly Leu Gly Ala Xaa Thr Lys Ile Thr Thr Ser His  
100 105 110

Pro Arg Val Pro Ser Leu Thr Thr Val Pro Gln Thr Gln Gly Gln Thr  
 115 120 125  
 Thr Ala Gln Lys Val Ser Lys Lys Thr Gly Pro Arg Cys Ser Thr Ala  
 130 135 140  
 Ile Ala Thr Gly Leu Lys Asn Gln Lys Pro Val Pro Ala Val Pro Val  
 145 150 155 160  
 Gln Lys Ser Gly Thr Ser Gly Val Pro Pro Met Ala Gly Gly Lys Lys  
 165 170 175  
 Pro Ser Lys Arg Pro Ala Trp Asp Leu Lys Gly Gln Leu Cys Asp Leu  
 180 185 190  
 Asn Ala Glu Leu Lys Arg Cys Arg Glu Arg Thr Gln Thr Leu Asp Gln  
 195 200 205  
 Glu Asn Gln Gln Leu Gln Asp Gln Leu Arg Asp Ala Gln Gln Gln Val  
 210 215 220  
 Lys Ala Leu Gly Thr Glu Arg Thr Thr Leu Glu Gly His Leu Ala Lys  
 225 230 235 240  
 Val Gln Ala Gln Ala Glu Gln Gly Gln Gln Glu Leu Lys Asn Leu Arg  
 245 250 255  
 Ala Cys Xaa Leu Glu Leu Glu Glu Arg Leu Ser Thr Gln Glu Gly Leu  
 260 265 270  
 Val Gln Glu Leu Gln Lys Lys Gln Val Glu Leu Gln Glu Glu Arg Arg  
 275 280 285  
 Gly Leu Met Ser Gln Leu Glu Glu Lys Glu Arg Arg Leu Gln Thr Ser  
 290 295 300  
 Glu Ala Ala Leu Ser Ser Ser Gln Ala Glu Val Ala Ser Leu Arg Gln  
 305 310 315 320  
 Glu Thr Val Ala Gln Ala Ala Leu Leu Thr Glu Arg Glu Glu Arg Leu  
 325 330 335  
 His Gly Leu Glu Met Glu Arg Arg Arg Leu His Asn Gln Leu Gln Glu  
 340 345 350  
 Leu Lys Gly Asn Ile Arg Val Phe Cys Arg Val Arg Pro Val Leu Pro  
 355 360 365  
 Gly Glu Pro Thr Pro Pro Pro Gly Leu Leu Leu Phe Pro Ser Gly Pro  
 370 375 380

Gly Gly Pro Ser Asp Pro Pro Thr Arg Leu Ser Leu Ser Arg Ser Asp  
 385 390 395 400  
 Glu Arg Arg Gly Thr Leu Ser Gly Ala Pro Ala Pro Pro Thr Arg His  
 405 410 415  
 Asp Phe Ser Phe Asp Arg Val Phe Pro Pro Gly Ser Gly Gln Asp Glu  
 420 425 430  
 Val Phe Glu Glu Ile Ala Met Leu Val Gln Ser Ala Leu Asp Gly Tyr  
 435 440 445  
 Pro Xaa Cys Ile Phe Ala Tyr Gly Gln Thr Xaa Ser Gly Lys Thr Phe  
 450 455 460  
 Thr Met Glu Gly Gly Leu Gly Glu Thr Pro Xaa Gly Arg Ala Asp Pro  
 465 470 475 480  
 Ser Gly

&lt;210&gt; 1188

&lt;211&gt; 345

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1188

Thr Ala Ser Leu Ser Asn Ala Val Lys Ile Leu Leu Arg Trp Val Thr  
 1 5 10 15

Arg Tyr Ser Cys Pro Arg Ala Phe Val Thr Gly Met Pro Lys Arg Gly  
 20 25 30

Lys Lys Gly Ala Val Ala Glu Asp Gly Asp Glu Leu Arg Thr Glu Pro  
 35 40 45

Glu Ala Lys Lys Ser Lys Thr Ala Ala Lys Lys Asn Asp Lys Glu Ala  
 50 55 60

Ala Gly Glu Gly Pro Ala Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr  
 65 70 75 80

Ser Pro Ser Gly Lys Pro Ala Thr Leu Lys Ile Cys Ser Trp Asn Val  
 85 90 95

Asp Gly Leu Arg Ala Trp Ile Lys Lys Lys Gly Leu Asp Trp Val Lys  
100 105 110

Glu Glu Ala Pro Asp Ile Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu  
115 120 125

Asn Lys Leu Pro Ala Glu Leu Gln Glu Leu Pro Gly Leu Ser His Gln  
130 135 140

Tyr Trp Ser Ala Pro Ser Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu  
145 150 155 160

Leu Ser Arg Gln Cys Pro Leu Lys Val Ser Tyr Gly Ile Gly Xaa Glu  
165 170 175

Glu His Asp Gln Glu Gly Arg Val Ile Val Ala Glu Phe Asp Ser Phe  
180 185 190

Val Leu Val Thr Ala Tyr Val Pro Asn Ala Gly Arg Gly Leu Val Arg  
195 200 205

Leu Glu Tyr Arg Gln Arg Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys  
210 215 220

Gly Leu Ala Ser Arg Lys Pro Leu Val Leu Cys Gly Asp Leu Asn Val  
225 230 235 240

Ala His Glu Glu Ile Asp Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn  
245 250 255

Ala Gly Phe Thr Pro Gln Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln  
260 265 270

Ala Val Pro Leu Ala Asp Ser Phe Arg His Leu Tyr Pro Asn Thr Pro  
275 280 285

Tyr Ala Tyr Thr Phe Trp Thr Tyr Met Met Asn Ala Arg Ser Lys Asn  
290 295 300

Val Gly Trp Arg Leu Asp Tyr Phe Leu Leu Ser His Ser Leu Leu Pro  
305 310 315 320

Ala Leu Cys Asp Ser Lys Ile Arg Ser Lys Ala Leu Gly Ser Asp His  
325 330 335

Cys Pro Ile Thr Leu Tyr Leu Ala Leu  
340 345

<210> 1189

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1189

Asp Ile Ser Thr Pro Ser Leu Thr Thr Asp His Ala Pro Leu Thr Ile  
1 5 10 15

Ser Leu Lys Pro Asn His Pro Tyr Arg Thr Gln Cys Gln Tyr Pro Ile  
20 25 30

Pro Gln His Ala Leu Lys Arg Leu Lys Pro Val Ile Ile Arg Leu Leu  
35 40 45

Gln His Gly Leu Leu Asn Pro Ile Asn Ser Pro Tyr Asn Ser Pro Ile  
50 55 60

Phe Pro Val Leu Lys Arg Asp Lys Pro Tyr Lys Leu Val Gln Asp Leu  
65 70 75 80

Arg Leu Ile Asn Gln Ile Val Leu Pro Ile His Pro Val Val Pro Asn  
85 90 95

Pro Tyr Thr Leu Leu Ser Ser Ile Pro Pro Ser Thr Thr His Tyr Ser  
100 105 110

Val Leu Asp Leu Arg His Ala Phe Phe Thr Ile Ala Leu His Pro Ser  
115 120 125

Ser Gln Pro Leu Phe Ala Phe Thr  
130 135

<210> 1190

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>



&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1190

Leu	Xaa	Gln	Lys	Thr	Gln	Pro	Thr	His	Glu	Lys	Xaa	Ala	Xaa	Ser	Phe
1				5					10					15	

Leu	Gly	Met	Val	Cys	Ile	Trp	Val	Xaa	Ser	Ile	Gln	Thr	Ser	Ile	Asn
			20					25					30		

Thr	Ser	Phe	Ile	Leu	Gly	Leu	Pro	Asn	Ser	Phe	Pro	Gln	Asp	Leu	Lys
		35					40					45			

Thr	Ile	Thr	Met	Ile	Lys	Val	Ser	Phe	Ala	Pro	Cys	Gln	Arg	Leu	Gly
	50					55					60				

Pro	Leu	Pro	Phe	Pro	Ser	Arg	Gln	Tyr	Ser	Val	Gln	Leu	Gly	Leu	Val
65					70					75				80	

Pro	Ser	Leu	Ser	Val	Arg	Thr	Glu	Phe	His	Pro	Arg	Phe	Ser	Thr	Gln
				85					90					95	

Ala	Leu	Cys	Ser	Gly	Lys	Val	Lys	Pro	Ser	Leu	Lys	Gly	Ser	Lys	Ser
		100						105					110		

Ser	Ala	Ile	Asp	Arg	Ala	Ala	Gly	Gly	Lys	Arg	Ser	Arg	Cys	Ile	Arg
		115					120					125			

&lt;210&gt; 1191

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1191

Arg	Ala	Gly	Ser	Val	Lys	Arg	Arg	Gln	Arg	Gly	Lys	Met	Ala	Ala	Ala
1				5					10				15		

Val	Pro	Gln	Arg	Ala	Trp	Thr	Val	Glu	Gln	Leu	Arg	Ser	Glu	Gln	Leu
			20					25					30		

Pro Lys Lys Asp Ile Ile Lys Phe Leu Gln Glu His Gly Ser Asp Ser  
           35                          40                          45  
 Phe Leu Ala Glu His Lys Leu Leu Gly Asn Ile Lys Asn Val Ala Lys  
           50                          55                          60  
 Thr Ala Asn Lys Asp His Leu Val Thr Ala Tyr Asn His Leu Phe Glu  
           65                          70                          75                          80  
 Thr Lys Arg Phe Lys Gly Thr Glu Ser Ile Ser Lys Val Ser Glu Gln  
                           85                          90                          95  
 Val Lys Asn Val Lys Leu Asn Glu Asp Lys Pro Lys Glu Thr Lys Ser  
                   100                          105                          110  
 Glu Glu Thr Leu Asp Glu Gly Pro Pro Lys Tyr Thr Lys Ser Val Leu  
           115                          120                          125  
 Lys Lys Gly Asp Lys Thr Asn Phe Pro Lys Lys Gly Asp Val Val His  
           130                          135                          140  
 Cys Trp Tyr Thr Gly Thr Leu Gln Asp Gly Thr Val Phe Asp Thr Asn  
           145                          150                          155                          160  
 Ile Gln Thr Ser Ala Lys Lys Lys Lys Asn Ala Lys Pro Leu Ser Phe  
                   165                          170                          175  
 Lys Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu  
           180                          185                          190  
 Thr Met Ser Lys Gly Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp  
           195                          200                          205  
 Ala Tyr Gly Lys Lys Gly Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala  
           210                          215                          220  
 Lys Leu Thr Phe Glu Val Glu Leu Val Asp Ile Asp  
           225                          230                          235

&lt;210&gt; 1192

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1192

Pro Ala Met Glu Ala Glu Ala Gly Gly Leu Glu Glu Leu Thr Asp Glu  
   1                          5                          10                          15

Glu Met Ala Ala Leu Gly Lys Glu Glu Leu Val Arg Arg Leu Arg Arg

20					25					30						
Glu	Glu	Ala	Ala	Arg	Leu	Ala	Ala	Leu	Val	Gln	Arg	Gly	Arg	Leu	Met	
35					40					45						
Gln	Glu	Val	Asn	Arg	Gln	Leu	Gln	Gly	His	Leu	Gly	Glu	Ile	Arg	Glu	
50					55					60						
Leu	Lys	Gln	Leu	Asn	Arg	Arg	Leu	Gln	Ala	Glu	Asn	Arg	Glu	Leu	Arg	
65					70					75					80	
Asp	Leu	Cys	Cys	Phe	Leu	Asp	Ser	Glu	Arg	Gln	Arg	Gly	Arg	Arg	Ala	
85					90					95						
Ala	Arg	Gln	Trp	Gln	Leu	Phe	Gly	Thr	Gln	Ala	Ser	Arg	Ala	Val	Arg	
100					105					110						
Glu	Asp	Leu	Gly	Gly	Cys	Trp	Gln	Lys	Leu	Ala	Glu	Leu	Glu	Gly	Arg	
115					120					125						
Gln	Glu	Glu	Leu	Leu	Arg	Glu	Asn	Leu	Ala	Leu	Lys	Glu	Leu	Cys	Leu	
130					135					140						
Ala	Leu	Gly	Glu	Glu	Trp	Gly	Pro	Arg	Gly	Gly	Pro	Ser	Gly	Ala	Gly	
145					150					155					160	
Gly	Ser	Gly	Ala	Gly	Pro	Ala	Pro	Glu	Leu	Ala	Leu	Pro	Pro	Cys	Gly	
165					170					175						
Pro	Arg	Asp	Leu	Gly	Asp	Gly	Ser	Ser	Ser	Thr	Gly	Ser	Val	Gly	Ser	
180					185					190						
Pro	Asp	Gln	Leu	Pro	Leu	Ala	Cys	Ser	Pro	Asp	Asp					
195					200											

&lt;210&gt; 1193

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1193

Ser Gln Gln Thr Glu Leu Ile Thr Val Ile Leu Gly Val Phe Phe Cys  
 1 5 10 15  
 Arg Val Lys His Val Asn Ile Leu His Arg His Lys Tyr Lys His Asp  
 20 25 30  
 Lys His Trp Thr Trp Lys Met Gly Ser Lys Phe Cys Thr Cys Ala Phe  
 35 40 45  
 Leu Tyr Phe Cys Cys Ile Phe Xaa Ser Cys Xaa Phe Ala Lys Tyr Ile  
 50 55 60  
 Ile Asn  
 65

&lt;210&gt; 1194

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1194

Thr Cys Ala Gly Pro Arg Gly Ala Ala Cys Gly Arg Leu Arg Leu Pro  
 1 5 10 15  
 Ala Ala Gly Ala Leu Leu Pro Ala Ala Gln Arg Arg Val His Arg Tyr  
 20 25 30  
 Glu Glu Ser Glu Val Ile Ser Leu Pro Phe Leu Asp Gln Leu Val Ser  
 35 40 45  
 Thr Leu Val Gly Leu Leu Ser Pro His Asn Pro Ala Leu Ala Ala Ala  
 50 55 60  
 Ala Leu Asp Tyr Arg Cys Pro Val His Phe Tyr Trp Val Arg Gly Glu  
 65 70 75 80  
 Glu Ile Ile Pro Arg Gly His Arg Arg Gly Arg Ile Asp Asp Leu Arg  
 85 90 95  
 Tyr Gln Ile Asp Asp Lys Pro Asn Asn Gln Ile Arg Ile Ser Lys Gln  
 100 105 110  
 Leu Ala Glu Phe Val Pro Leu Asp Tyr Ser Val Pro Ile Glu Ile Pro  
 115 120 125  
 Thr Ile Lys Cys Lys Pro Asp Lys Leu Pro Leu Phe Lys Arg Gln Tyr  
 130 135 140

Glu Asn His Ile Phe Val Gly Ser Lys Thr Ala Asp Pro Cys Cys Tyr  
145                      150                      155                      160

Gly His Thr Gln Phe His Leu Leu Pro Asp Lys Leu Arg Arg Glu Arg  
                    165                      170                      175

Leu Leu Arg Gln Asn Cys Ala Asp Gln Ile Glu Val Val Phe Arg Ala  
                    180                      185                      190

Asn Ala Ile Ala Ser Leu Phe Ala Trp Thr Gly Ala Gln Ala Met Tyr  
                    195                      200                      205

Gln Gly Phe Trp Ser Glu Ala Asp Val Thr Arg Pro Phe Val Ser Gln  
                    210                      215                      220

Ala Val Ile Thr Asp Gly Lys Tyr Phe Ser Phe Phe Cys Tyr Gln Leu  
225                      230                      235                      240

Asn Thr Leu Ala Leu Thr Thr Gln Ala Asp Gln Asn Asn Pro Arg Lys  
                    245                      250                      255

Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro Leu Tyr Glu Thr Ile Glu  
                    260                      265                      270

Asp Asn Asp Val Lys Gly Phe Asn Asp Asp Val Leu Leu Gln Ile Val  
                    275                      280                      285

His Phe Leu Leu Asn Arg Pro Lys Glu Glu Lys Ser Gln Leu Leu Glu  
                    290                      295                      300

Asn  
305

<210> 1195

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1195

Gly Arg Ala Ala Pro Gln Leu Gln Asp Leu Ala Ser Ser Cys Pro Gln  
 1 5 10 15  
 Glu Glu Val Ser Gln Gln Gln Glu Ser Val Ser Xaa Leu Pro Ala Ser  
 20 25 30  
 Val His Pro Gln Leu Xaa His Gly Arg Ala Trp Arg Pro Ser Thr Cys  
 35 40 45  
 Ser Thr Asp Ser Arg Ser Pro Ala Phe Cys Gln Arg Pro Arg Thr Pro  
 50 55 60  
 Val Ser Ile Cys Cys Arg Ile Lys Arg Leu Phe Leu Gln Lys Gln Ser  
 65 70 75 80  
 Gln Leu Gln Ala Tyr Phe Asn Gln Met Gln Ile Ala Glu Ser Ser Tyr  
 85 90 95  
 Pro Gln Pro Ser Gln Gln  
 100

&lt;210&gt; 1196

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1196

Ala Arg Gly Pro Ala Ala Ala Cys Pro Leu Arg Trp Pro Pro Ala Ala  
 1 5 10 15  
 Ala Arg Ala Met Ala Gly Lys Ala His Arg Leu Ser Ala Glu Glu Arg  
 20 25 30  
 Asp Gln Leu Leu Pro Asn Leu Arg Ala Val Gly Trp Asn Glu Leu Glu  
 35 40 45  
 Gly Arg Asp Ala Ile Phe Lys Gln Phe His Phe Lys Asp Phe Asn Arg  
 50 55 60  
 Ala Phe Gly Phe Met Thr Arg Val Ala Leu Gln Ala Glu Lys Leu Asp  
 65 70 75 80  
 His His Pro Glu Trp Phe Asn Val Tyr Asn Lys Val His Ile Thr Leu  
 85 90 95  
 Ser Thr His Glu Cys Ala Gly Leu Ser Glu Arg Asp Ile Asn Leu Ala  
 100 105 110

Ser Phe Ile Glu Gln Val Ala Val Ser Met Thr  
 115 120

<210> 1197

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1197

Ala Arg Gly Gly Gly Lys Ser Gly Arg Ala Gly Gly Ala Gly Ala Arg  
 1 5 10 15

Arg Gly Gly Lys Glu Leu Arg Val Ala Ala Glu Xaa Pro Arg Xaa Gln  
 20 25 30

Arg Arg Pro Thr Gln Pro Ser Arg Arg Arg Arg Ala Pro Met Ala  
 35 40 45

Ala Ala Lys Asp Thr His Glu Asp His Asp Thr Ser Thr Glu Asn Thr  
 50 55 60

Asp Glu Ser Asn His Asp Pro Gln Phe Glu Pro Ile Val Ser Leu Pro  
 65 70 75 80

Glu Gln Glu Ile Lys Thr Leu Glu Glu Asp Glu Glu Glu Leu Phe Lys  
 85 90 95

Met Arg Ala Lys Leu Phe Arg Phe Ala Ser Glu Asn Asp Leu Pro Glu  
 100 105 110

Trp Lys Glu Arg Gly Thr Gly Asp Val Lys Leu Leu Lys His Lys Glu  
 115 120 125

Lys Gly Ala Ile Arg Leu Leu Met Arg Arg Asp Lys Thr Leu Lys Ile  
 130 135 140

Cys Ala Asn His Tyr Ile Thr Pro Met Met Glu Leu Lys Pro Asn Ala  
 145 150 155 160

Gly Ser Asp Arg Ala Trp Val Trp Asn Thr His Ala Asp Phe Ala Asp  
165 170 175

Glu Cys Pro Lys Pro Glu Leu Leu Ala Ile Arg Phe Leu Asn Ala Glu  
180 185 190

Asn Ala Gln Lys Phe Lys Thr Lys Phe Glu Glu Cys Arg Lys Glu Ile  
195 200 205

Glu Glu Arg Glu Lys Lys Ala Gly Ser Gly Lys Asn Asp His Ala Glu  
210 215 220

Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Lys Glu Glu Thr Lys  
225 230 235 240

Glu Asp Ala Glu Glu Lys Gln  
245

<210> 1198  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 1198  
Phe Gly Phe Ser Thr Cys Ile Thr Asn Pro Ala Pro Ile Cys His Ile  
1 5 10 15

Lys Val Cys Asp Leu Lys Phe Ser Gln His Pro His Gln Thr Leu Phe  
20 25 30

Phe Tyr Val Phe Phe Ala Thr Tyr Glu Cys Phe Glu Asn Lys Val Pro  
35 40 45

Met Ser Leu Leu Glu Lys Lys Lys Lys Lys Lys  
50 55 60

<210> 1199  
<211> 198  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (189)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>



<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1199

Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu  
1 5 10 15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr  
20 25 30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala  
35 40 45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala  
50 55 60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu  
65 70 75 80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe  
85 90 95

Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr  
100 105 110

Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly  
115 120 125

Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val  
130 135 140

Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr  
145 150 155 160

Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu Ala His Leu Gly  
165 170 175

His Ser Trp Gly Lys Pro Asp Phe Asn Tyr Gly Met Xaa Ser Trp Ala  
180 185 190

Cys Xaa Xaa Gly Pro Val  
195

&lt;210&gt; 1200

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1200

Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gly Arg Glu Xaa  
 1 5 10 15

Ala Gly Lys Met Val Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile  
 20 25 30

Gln Ala Ala Ser Ala Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn  
 35 40 45

Gly Ile Gln Ala His Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr  
 50 55 60

Thr Ala Glu Ser Gln Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr  
 65 70 75 80

Pro Lys Ala Arg Lys Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys  
 85 90 95

Gly Thr Glu Pro Ser Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn  
 100 105 110

Tyr Ser Val Ser Glu His His Asp Thr Ile Leu Arg Val Thr Arg Arg  
 115 120 125

Arg Gln Ile Leu Ile Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys  
 130 135 140

Pro Lys Val Thr Pro Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser  
 145 150 155 160

Glu Ala Glu Ser His Val Ser Gly Ile Ser Arg Asn Cys Ala  
 165 170

&lt;210&gt; 1201

&lt;211&gt; 689

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1201

Trp Ser Thr Glu Val Glu Pro Ser Gly Ile Ile Phe Lys Asn Ser Lys  
1 5 10 15

Thr Gly Lys Val Asp Asn Ile Gln Ala Gly Glu Leu Thr Glu Gly Ile  
20 25 30

Trp Arg Arg Val Ala Leu Gly His Gly Leu Lys Leu Leu Thr Lys Asn  
35 40 45

Gly His Val Tyr Lys Tyr Asp Gly Phe Arg Glu Ser Glu Phe Glu Lys  
50 55 60

Leu Ser Asp Phe Phe Lys Thr His Tyr Arg Leu Glu Leu Met Glu Lys  
65 70 75 80

Asp Leu Cys Val Lys Gly Trp Asn Trp Gly Thr Val Lys Phe Gly Gly  
85 90 95

Gln Leu Leu Ser Phe Asp Ile Gly Asp Gln Pro Val Phe Glu Ile Pro  
100 105 110

Leu Ser Asn Val Ser Gln Cys Thr Thr Gly Lys Asn Glu Val Thr Leu  
115 120 125

Glu Phe His Gln Asn Asp Asp Ala Glu Val Ser Leu Met Glu Val Arg  
130 135 140

Phe Tyr Val Pro Pro Thr Gln Glu Asp Gly Val Asp Pro Val Glu Ala  
145 150 155 160

Phe Ala Gln Asn Val Leu Ser Lys Ala Asp Val Ile Gln Ala Thr Gly  
165 170 175

Asp Ala Ile Cys Ile Phe Arg Glu Leu Gln Cys Leu Thr Pro Arg Gly  
180 185 190

Arg Tyr Asp Ile Arg Ile Tyr Pro Thr Phe Leu His Leu His Gly Lys  
195 200 205

Thr Phe Asp Tyr Lys Ile Pro Tyr Thr Thr Val Leu Arg Leu Phe Leu  
210 215 220

Leu Pro His Lys Asp Gln Arg Gln Met Phe Phe Val Ile Ser Leu Asp  
225 230 235 240

Pro Pro Ile Lys Gln Gly Gln Thr Arg Tyr His Phe Leu Ile Leu Leu  
245 250 255

Phe Ser Lys Asp Glu Asp Ile Ser Leu Thr Leu Asn Met Asn Glu Glu  
260 265 270

Glu Val Glu Lys Arg Phe Glu Gly Arg Leu Thr Lys Asn Met Ser Gly  
275 280 285

Ser Leu Tyr Glu Met Val Ser Arg Val Met Lys Ala Leu Val Asn Arg  
290 295 300

Lys Ile Thr Val Pro Gly Asn Phe Gln Gly His Ser Gly Ala Gln Cys  
305 310 315 320

Ile Thr Cys Ser Tyr Lys Ala Ser Ser Gly Leu Leu Tyr Pro Leu Glu  
325 330 335

Arg Gly Phe Ile Tyr Val His Lys Pro Pro Val His Ile Arg Phe Asp  
340 345 350

Glu Ile Ser Phe Val Asn Phe Ala Arg Gly Thr Thr Thr Thr Arg Ser  
355 360 365

Phe Asp Phe Glu Ile Glu Thr Lys Gln Gly Thr Gln Tyr Thr Phe Ser  
370 375 380

Ser Ile Glu Arg Glu Glu Tyr Gly Lys Leu Phe Asp Phe Val Asn Ala  
385 390 395 400

Lys Lys Leu Asn Ile Lys Asn Arg Gly Leu Lys Glu Gly Met Asn Pro  
405 410 415

Ser Tyr Asp Glu Tyr Ala Asp Ser Asp Glu Asp Gln His Asp Ala Tyr  
420 425 430

Leu Glu Arg Met Lys Glu Glu Gly Lys Ile Arg Glu Glu Asn Ala Asn  
435 440 445

Asp Ser Ser Asp Asp Ser Gly Glu Glu Thr Asp Glu Ser Phe Asn Pro  
450 455 460

Gly Glu Glu Glu Glu Asp Val Ala Glu Glu Phe Asp Ser Asn Ala Ser  
465 470 475 480

Ala Ser Ser Ser Ser Asn Glu Gly Asp Ser Asp Arg Asp Glu Lys Lys  
485 490 495

Arg Lys Gln Leu Lys Lys Ala Lys Met Ala Lys Asp Arg Lys Ser Arg  
500 505 510

Lys Lys Pro Val Glu Val Lys Lys Gly Lys Asp Pro Asn Ala Pro Lys  
515 520 525

Arg Pro Met Ser Ala Tyr Met Leu Trp Leu Asn Ala Ser Arg Glu Lys  
530 535 540

Ile Lys Ser Asp His Pro Gly Ile Ser Ile Thr Asp Leu Ser Lys Lys  
 545 550 555 560

Ala Gly Glu Ile Trp Lys Gly Met Ser Lys Glu Lys Lys Glu Glu Trp  
 565 570 575

Asp Arg Lys Ala Glu Asp Ala Arg Arg Asp Tyr Glu Lys Ala Met Lys  
 580 585 590

Glu Tyr Glu Gly Gly Arg Gly Glu Ser Ser Lys Arg Asp Lys Ser Lys  
 595 600 605

Lys Lys Lys Lys Val Lys Val Lys Met Glu Lys Lys Ser Thr Pro Ser  
 610 615 620

Arg Gly Ser Ser Ser Lys Ser Ser Ser Arg Gln Leu Ser Glu Ser Phe  
 625 630 635 640

Lys Ser Lys Glu Phe Val Ser Ser Asp Glu Ser Ser Ser Gly Glu Asn  
 645 650 655

Lys Ser Lys Lys Lys Arg Arg Arg Ser Glu Asp Ser Glu Glu Glu Glu  
 660 665 670

Leu Ala Ser Thr Pro Pro Ser Ser Glu Asp Ser Ala Ser Gly Ser Asp  
 675 680 685

Glu

<210> 1202

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1202

Asn Leu Ser Glu Leu Leu Gln Ala Asp Phe Leu Gly Gln Gly Glu Ile  
 1 5 10 15

Met Val Leu Lys Cys Leu Ile Arg Ser His Thr Gln Phe Gln Val His  
 20 25 30

Tyr Ser Lys Ser Met Xaa Thr Ala Pro Thr Ala Thr Asn Leu Leu Leu

35                                      40                                      45  
 Pro Ser Arg Val Ala Cys Thr Ile Phe Ile Ala Cys Pro Gly Trp Val  
     50                                      55                                      60  
 Gly  
     65  
  
 <210> 1203  
 <211> 379  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (255)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1203  
 Gly Arg Leu Arg Ala Leu Ala Val Ser Ala Pro Gly Leu Thr  
     1                                      5                                      10                                      15  
 Phe Lys Met Val His Ala Glu Ala Phe Ser Arg Pro Leu Ser Arg Asn  
             20                                      25                                      30  
 Glu Val Val Gly Leu Ile Phe Arg Leu Thr Ile Phe Gly Ala Val Thr  
             35                                      40                                      45  
 Tyr Phe Thr Ile Lys Trp Met Val Asp Ala Ile Asp Pro Thr Arg Lys  
             50                                      55                                      60  
 Gln Lys Val Glu Ala Gln Lys Gln Ala Glu Lys Leu Met Lys Gln Ile  
             65                                      70                                      75                                      80  
 Gly Val Lys Asn Val Lys Leu Ser Glu Tyr Glu Met Ser Ile Ala Ala  
                     85                                      90                                      95  
 His Leu Val Asp Pro Leu Asn Met His Val Thr Trp Ser Asp Ile Ala  
             100                                      105                                      110  
 Gly Leu Asp Asp Val Ile Thr Asp Leu Lys Asp Thr Val Ile Leu Pro  
             115                                      120                                      125  
 Ile Lys Lys Xaa His Leu Phe Glu Asn Ser Arg Leu Leu Gln Pro Pro

130 135 140  
Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Thr Leu Ile  
145 150 155 160  
Ala Lys Ala Thr Ala Lys Glu Ala Gly Cys Arg Phe Ile Asn Leu Gln  
165 170 175  
Pro Ser Thr Leu Thr Asp Lys Trp Tyr Gly Glu Ser Gln Lys Leu Ala  
180 185 190  
Ala Ala Val Phe Ser Leu Ala Ile Lys Leu Gln Pro Ser Ile Ile Phe  
195 200 205  
Ile Asp Glu Ile Asp Ser Phe Leu Arg Asn Arg Ser Ser Ser Asp His  
210 215 220  
Glu Ala Thr Ala Met Met Lys Ala Gln Phe Met Ser Leu Trp Asp Gly  
225 230 235 240  
Leu Asp Thr Asp His Ser Cys Gln Val Ile Val Met Gly Ala Xaa Asn  
245 250 255  
Arg Pro Gln Asp Leu Asp Ser Ala Ile Met Arg Arg Met Pro Thr Arg  
260 265 270  
Phe His Ile Asn Gln Pro Ala Leu Lys Gln Arg Glu Ala Ile Leu Lys  
275 280 285  
Leu Ile Leu Lys Asn Glu Asn Val Asp Arg His Val Asp Leu Leu Glu  
290 295 300  
Val Ala Gln Glu Thr Asp Gly Phe Ser Gly Ser Asp Leu Lys Glu Met  
305 310 315 320  
Cys Arg Asp Ala Ala Leu Leu Cys Val Arg Glu Tyr Val Asn Ser Thr  
325 330 335  
Ser Glu Glu Ser His Asp Glu Asp Glu Ile Arg Pro Val Gln Gln Gln  
340 345 350  
Asp Leu His Arg Ala Ile Glu Lys Met Lys Lys Ser Lys Asp Ala Ala  
355 360 365  
Phe Gln Asn Val Leu Thr His Val Cys Leu Asp  
370 375

&lt;210&gt; 1204

&lt;211&gt; 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1204

Leu Ser Xaa Pro Gly Ala Trp Phe Tyr Val Pro Val Ala Met Phe Pro  
1 5 10 15

Val Ser Ser Gly Cys Phe Gln Glu Gln Gln Glu Thr Asn Lys Ser Leu  
20 25 30

Thr Leu Leu Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly  
35 40 45

Gln Thr Trp Ala Gly Ser Val Ser Leu Asn His Pro Pro Leu Pro Gln  
50 55 60

Leu Pro Thr Thr Asp Thr Ser Asp Asp Thr Pro Gly Lys  
65 70 75

<210> 1205

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (222)

<223> xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (239)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (273)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (277)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (284)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1205

Phe Thr Ser Val Ser Cys Thr Ser Thr Ser Ser Phe Ser Ser Asn Ala  
 1 5 10 15

Ala Gln Arg Phe Phe Leu Leu His Gly Thr Lys Cys Asn Tyr Ser Pro  
 20 25 30

Gly Ser Pro Val Tyr Phe Cys Tyr Glu Ser Ser Tyr Phe Asn Thr Thr  
 35 40 45

Ser Arg Pro Thr Ser Cys Ser Ala Val Ser Ser Ala Val Asn Ile Met  
 50 55 60

Asn Gly Ser Gln Met His Ile Asn Pro Ala Asn Lys Ser Leu Pro Pro  
 65 70 75 80

Thr Phe Gly Pro Ala Thr Leu Phe Asn His Phe Ser Ser Leu Phe Asp  
 85 90 95

Ser Ser Gln Val Pro Ala Asn Gln Gly Trp Gly Asp Gly Pro Leu Ser  
 100 105 110

Ser Arg Val Ala Thr Asp Ala Ser Phe Thr Val Gln Ser Ala Phe Leu  
 115 120 125

Gly Asn Ser Val Leu Gly His Leu Glu Asn Met His Pro Asp Asn Ser  
 130 135 140

Lys Ala Pro Gly Phe Arg Pro Pro Ser Gln Arg Val Ser Thr Ser Pro  
 145 150 155 160

Val Gly Leu Pro Ser Ile Asp Pro Ser Gly Ser Ser Pro Ser Ser Ser  
165 170 175

Ser Ala Pro Leu Ala Ser Phe Ser Gly Ile Pro Gly Thr Arg Val Phe  
180 185 190

Leu Gln Gly Pro Ala Pro Val Gly Thr Pro Ser Phe Asn Arg Gln His  
195 200 205

Phe Ser Pro His Pro Trp Thr Ser Ala Ser Asn Ser Cys Xaa Xaa Pro  
210 215 220

Ile Pro Xaa Val Ser Ser Gly Ser Ser Ser Xaa Leu Ser Ala Xaa Ser  
225 230 235 240

Cys Pro Thr Asn Val Gly Ala Asn Gln Lys Gly Val Ser Ala Ser Gln  
245 250 255

Gly Phe Gly Lys Val Thr Phe Pro Gln Leu Gly Asn Arg Arg Arg Thr  
260 265 270

Xaa Ala Arg Ile Xaa Gly Lys Gly Gly Gly Phe Xaa Trp His Lys Ala  
275 280 285

Pro Gly Gly Asn Gln Phe Phe Cys Ser Val Ser Leu Trp Asp Lys Val  
290 295 300

Gly  
305

<210> 1206

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1206

Arg Glu His Ser Ala Phe Asp Leu Trp Glu Ile Ser Ser Trp Xaa Pro  
1 5 10 15

Trp Cys Cys Thr Asp His Gln Glu Glu Leu Lys Ser Ser Gly Asn Leu  
20 25 30

Xaa Lys Ile Lys Ser Pro Pro Ala Arg Xaa Leu Ser Lys Ile Thr Gly  
35 40 45

Arg Leu Leu Xaa Gln His Val Xaa Glu Cys Ala Ser Gly  
50 55 60

&lt;210&gt; 1207

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1207

Asn Ser Ala Gln Gly Met Ala Gly Ser Pro Glu Leu Val Val Leu Asp  
1 5 10 15

Pro Pro Trp Asp Lys Glu Leu Ala Ala Gly Thr Glu Ser Gln Ala Leu  
20 25 30

Val Ser Ala Thr Pro Arg Glu Asp Phe Arg Val Arg Cys Thr Ala Lys  
35 40 45

Arg Ala Val Thr Glu Met Leu Gln Leu Cys Gly Arg Phe Val Gln Lys  
50 55 60

Leu Gly Asp Ala Leu Pro Glu Glu Ile Arg Glu Pro Ala Leu Arg Asp  
65 70 75 80

Ala Gln Trp Thr Phe Glu Ser Ala Val Gln Glu Asn Ile Ser Ile Asn  
85 90 95

Gly Gln Ala Trp Gln Glu Ala Ser Asp Asn Cys Phe Met Asp Ser Asp

100	105	110
Ile Lys Val Leu Glu Asp Gln Phe Asp Glu Ile Ile Val Asp Ile Ala		
115	120	125
Thr Lys Arg Lys Gln Tyr Pro Arg Lys Ile Leu Glu Cys Val Ile Lys		
130	135	140
Thr Ile Lys Ala Lys Gln Glu Ile Leu Lys Gln Tyr His Pro Val Val		
145	150	155
		160
His Pro Leu Asp Leu Lys Tyr Asp Pro Asp Pro Val Leu Ala Cys Ile		
165	170	175

Asn

&lt;210&gt; 1208

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (277)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1208

Pro His Arg Val Asp Thr Arg Arg Arg Asp Pro Val Pro Arg Ser Arg
1                      5                      10                      15

Ala Leu Ser His Gly Thr Gly Arg Val Gly Ala Ala Ala Gly Glu Ser
20                      25                      30

Ser Arg Ala Pro Arg Cys Trp Ser Gly Ser Arg Pro Arg Ala Pro Ala
35                      40                      45

Asp Pro Pro Arg His Arg Pro Leu Leu Cys Leu Ser Arg Arg Gly Ser
50                      55                      60

Pro Pro His His Leu Gly Cys Leu Leu Gly Glu Ser Phe Met Gln Leu
65                      70                      75                      80

Gln Gln Arg Leu Leu Arg Glu Lys Glu Ala Lys Ile Arg Lys Ala Leu
85                      90                      95

Asp Arg Leu Arg Lys Lys Arg His Leu Leu Arg Arg Gln Arg Thr Arg
100                      105                      110

Arg Glu Phe Pro Val Ile Ser Val Val Gly Tyr Thr Asn Cys Gly Lys  
           115                                  120                                  125  
 Thr Thr Leu Ile Lys Ala Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg  
           130                                  135                                  140  
 Asp Gln Leu Phe Ala Thr Leu Asp Val Thr Ala His Ala Gly Thr Leu  
   145                                  150                                  155                                  160  
 Pro Ser Arg Met Thr Val Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser  
                                   165                                  170                                  175  
 Gln Leu Pro His Gly Leu Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp  
                                   180                                  185                                  190  
 Val Ala His Ser Asp Leu Ile Leu His Val Arg Asp Val Ser His Pro  
           195                                  200                                  205  
 Glu Ala Glu Leu Gln Lys Cys Ser Val Leu Ser Thr Leu Arg Gly Leu  
   210                                  215                                  220  
 Gln Leu Pro Ala Pro Leu Leu Asp Ser Met Val Glu Val His Asn Lys  
  225                                  230                                  235                                  240  
 Val Asp Leu Val Pro Gly Tyr Ser Pro Thr Glu Pro Asn Val Val Pro  
                                   245                                  250                                  255  
 Val Ser Ala Leu Arg Gly His Gly Leu Gln Glu Leu Lys Leu Ser Ser  
           260                                  265                                  270  
 Met Arg Arg Phe Xaa Arg Arg Arg Gly Asp Arg Ser Ser Leu Ser Val  
   275                                  280                                  285

<210> 1209

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209

Asn Ile Leu Gly Gly Gly Lys Trp Phe Leu Arg Gly Ile Leu Leu Ile  
1 5 10 15

Leu Pro Gln Val Tyr Leu Pro Cys Val Leu Gln Thr Lys Xaa Arg Tyr  
20 25 30

Val Gly Tyr Met Tyr Glu Thr Leu Asp Gln Lys Asp Pro Val Phe Asp  
35 40 45

Ala Lys Gly Ile Glu Thr Val Arg Arg Asp Ser Cys Pro Ala Val Ser  
50 55 60

Lys Ile Leu Glu Arg Ser Leu Lys Leu Leu Phe Glu Thr Arg Asp Ile  
65 70 75 80

Ser Leu Ile Lys Gln Tyr Val Gln Arg Gln Cys Met Lys Leu Leu Glu  
85 90 95

Gly Lys Ala Ser Ile Gln Asp Phe Ile Phe Ala Lys Glu Tyr Arg Gly  
100 105 110

Ser Phe Ser Tyr Lys Pro Gly Ala Cys Val Pro Ala Leu Glu Leu Thr  
115 120 125

Arg Lys Met Leu Thr Tyr Asp Arg Arg Ser Glu Pro Gln Val Gly Glu  
130 135 140

Arg Val Pro Tyr Val Ile Ile Tyr Gly Thr Pro Gly Val Pro Leu Ile  
145 150 155 160

Gln Leu Val Arg Arg Pro Val Glu Val Leu Gln Asp Pro Thr Leu Arg  
165 170 175

Leu Asn Ala Thr Tyr Tyr Ile Thr Lys Gln Ile Leu Pro Pro Leu Ala  
180 185 190

Arg Ile Phe Ser Leu Ile Gly Ile Asp Val Phe Ser Trp Tyr His Glu  
195 200 205

Leu Pro Arg Ile His Lys Ala Thr Ser Ser Ser Arg Ser Glu Pro Glu  
210 215 220

Gly Arg Lys Gly Thr Ile Ser Gln Tyr Phe Thr Thr Leu His Cys Pro  
225 230 235 240

Val Cys Asp Asp Leu Thr Gln His Gly Ile Cys Ser Lys Cys Arg Ser  
245 250 255

Gln Pro Gln His Xaa Ala Val Ile Leu Asn Gln Glu Ile Arg Glu Leu  
260 265 270

Glu Arg Gln Gln Glu Gln Leu Val Lys Ile Cys Lys Asn Cys Thr Gly  
275 280 285

Cys Phe Asp Arg His Ile Pro Cys Val Ser Leu Asn Cys Pro Val Leu  
290 295 300

Phe Lys Leu Ser Arg Val Asn Arg Glu Leu Ser Lys Ala Pro Tyr Leu  
305 310 315 320

Arg Gln Leu Leu Asp Gln Phe  
325

<210> 1210

<211> 676

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1210

Pro Val Leu Arg Thr His Pro Gly Pro Gln Ser Leu Pro Arg Val Pro  
1 5 10 15

Gly Val Pro Cys Gly Gly Leu Leu Glu Pro Leu Ser Arg Ala Glu Val  
20 25 30

Ser Pro Arg Leu Gly Leu Arg Arg Asp Leu Leu Gly Gly Met Ala Pro  
35 40 45

Pro Gly Ser Ser Thr Val Phe Leu Leu Ala Leu Thr Ile Ile Ala Ser  
50 55 60

Thr Trp Ala Leu Thr Pro Thr His Tyr Leu Thr Lys His Asp Val Glu  
65 70 75 80

Arg Leu Lys Ala Ser Leu Asp Arg Pro Phe Thr Asn Leu Glu Ser Ala  
85 90 95

Phe Tyr Ser Ile Val Gly Leu Ser Ser Leu Gly Ala Gln Val Pro Asp  
100 105 110

Ala Lys Lys Ala Cys Thr Tyr Ile Arg Ser Asn Leu Asp Pro Ser Asn  
115 120 125

Val Asp Ser Leu Phe Tyr Ala Ala Gln Ala Ser Gln Ala Leu Ser Gly  
130 135 140

Cys Glu Ile Ser Ile Ser Asn Glu Thr Lys Asp Leu Leu Leu Ala Ala  
145 150 155 160

Val Ser Glu Asp Ser Ser Val Thr Gln Ile Tyr His Ala Val Ala Ala  
165 170 175

Leu Ser Gly Phe Gly Leu Pro Leu Ala Ser Gln Glu Ala Leu Ser Ala  
180 185 190

Leu Thr Ala Arg Leu Ser Lys Glu Glu Thr Val Leu Ala Thr Val Gln  
195 200 205

Ala Leu Gln Thr Ala Ser His Leu Ser Gln Gln Ala Asp Leu Arg Ser  
210 215 220

Ile Val Glu Glu Ile Glu Asp Leu Val Ala Arg Leu Asp Glu Leu Gly  
225 230 235 240

Gly Val Tyr Leu Gln Phe Glu Glu Gly Leu Glu Thr Thr Ala Leu Phe  
245 250 255

Val Ala Ala Thr Tyr Lys Leu Met Asp His Val Gly Thr Glu Pro Ser  
260 265 270

Ile Lys Glu Asp Gln Val Ile Gln Leu Met Asn Ala Ile Phe Ser Lys  
275 280 285

Lys Asn Phe Glu Ser Leu Ser Glu Ala Phe Ser Val Ala Ser Ala Ala  
290 295 300

Ala Val Leu Ser His Asn Arg Tyr His Val Pro Val Val Val Val Pro  
305 310 315 320

Glu Gly Ser Ala Ser Asp Thr His Glu Gln Ala Ile Leu Arg Leu Gln  
325 330 335

Val Thr Asn Val Leu Ser Gln Pro Leu Thr Gln Ala Thr Val Lys Leu  
340 345 350

Glu His Ala Lys Ser Val Ala Ser Arg Ala Thr Val Leu Gln Lys Thr  
355 360 365

Ser Phe Thr Pro Val Xaa Asp Val Phe Glu Leu Asn Phe Met Asn Val  
370 375 380

Lys Phe Ser Ser Gly Tyr Tyr Asp Phe Leu Val Glu Val Glu Gly Asp  
385 390 395 400





Arg Thr Ala His  
675

<210> 1211  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 1211  
His Val Cys Leu Thr Leu Met Glu Gly Ile Asn Pro Gln Asn Phe Leu  
1 5 10 15  
Pro Arg Glu Leu Gly Asn Cys Pro Arg Asn Lys Pro Cys Thr Val Glu  
20 25 30  
Trp Thr Trp Ile Ser Asn Asn Leu Leu Leu Cys Arg Ile Cys Ser Leu  
35 40 45  
Val Ile Val Trp Cys Val Ile Leu  
50 55

<210> 1212  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1212  
Ser Tyr Pro Ala Ala Lys Ser Ser Val Ile Phe Gly Ala Leu Arg Ile  
1 5 10 15  
Thr Leu Val Ser Ala His Phe Pro Phe Cys Leu Pro Tyr Lys Ala Gln  
20 25 30  
Asn Arg Val Gly Lys Lys Tyr Glu Thr Ser Thr Val Ser Thr Phe Leu  
35 40 45  
Glu Val Trp Tyr Leu Val Ser Arg Leu Arg Pro Gln Asp  
50 55 60

<210> 1213  
<211> 260  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1213

Cys	Pro	Pro	Glu	Cys	Arg	Trp	Cys	Val	Ala	Arg	Leu	Ala	Leu	Arg	Glu
1				5					10					15	
Ser	Trp	Gly	Leu	Leu	Pro	Glu	Arg	Tyr	Gly	Tyr	Val	Asp	Arg	Asn	Arg
			20					25						30	
Ile	Phe	Gly	Cys	Asp	Pro	Pro	Tyr	Tyr	Ala	Val	Leu	Glu	Gly	Glu	Gln
		35					40					45			
Phe	Thr	Ser	Gly	Val	Ser	Thr	Leu	Gln	Glu	Glu	Thr	Thr	Val	Ser	Leu
	50					55					60				
Asn	Thr	Val	Asp	Ser	Ile	Glu	Ser	Phe	Val	Ala	Asp	Ile	Asn	Ser	Gly
65					70					75					80
His	Trp	Asp	Thr	Val	Leu	Gln	Ala	Ile	Gln	Ser	Leu	Lys	Leu	Pro	Asp
				85					90						95
Lys	Thr	Leu	Ile	Asp	Leu	Tyr	Glu	Gln	Val	Val	Leu	Glu	Leu	Ile	Glu
		100					105						110		
Leu	Arg	Glu	Leu	Gly	Ala	Ala	Arg	Ser	Leu	Leu	Arg	Gln	Thr	Asp	Pro
	115						120					125			
Met	Ile	Met	Leu	Lys	Gln	Thr	Gln	Pro	Glu	Arg	Tyr	Ile	His	Leu	Glu
	130					135					140				
Asn	Leu	Leu	Ala	Arg	Ser	Tyr	Phe	Asp	Pro	Arg	Glu	Ala	Tyr	Pro	Asp
145					150					155					160
Gly	Ser	Ser	Lys	Glu	Lys	Arg	Arg	Ala	Ala	Ile	Ala	Gln	Ala	Leu	Ala
			165					170						175	
Gly	Glu	Val	Ser	Val	Val	Pro	Pro	Ser	Arg	Leu	Met	Ala	Leu	Leu	Gly
		180						185					190		
Gln	Ala	Leu	Lys	Trp	Gln	Gln	His	Gln	Gly	Leu	Leu	Xaa	Pro	Gly	Met
	195						200						205		
Thr	Ile	Asp	Leu	Phe	Arg	Gly	Lys	Ala	Ala	Val	Lys	Asp	Val	Glu	Glu
	210					215					220				
Glu	Lys	Phe	Pro	Thr	Gln	Leu	Ser	Arg	His	Ile	Lys	Phe	Gly	Gln	Lys
225					230					235					240